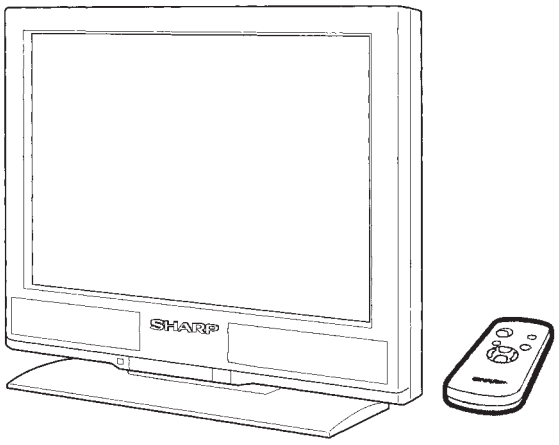
SHARP SERVICE MANUAL

S10V7LC20VM2U



LCD AV MONITOR

MODEL LC-20VM2

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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This service manual is for the USA, CANADA, MEXICO models.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

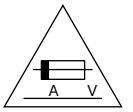
1. IMPORTANT SERVICE SAFETY PRECAUTION

● **Service work should be perfomed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION



FOR CONTINUED PROTECTION

AGAINST A RISK OF FIRE REPLACE

ONLY WITH SAME TYPE FUSE. F702 (2.5A,

125V), F703 (3.15A, 125V), F7751 (6.3A, 125V)

FUSE.

BEFORE RETURNING THE MONITOR

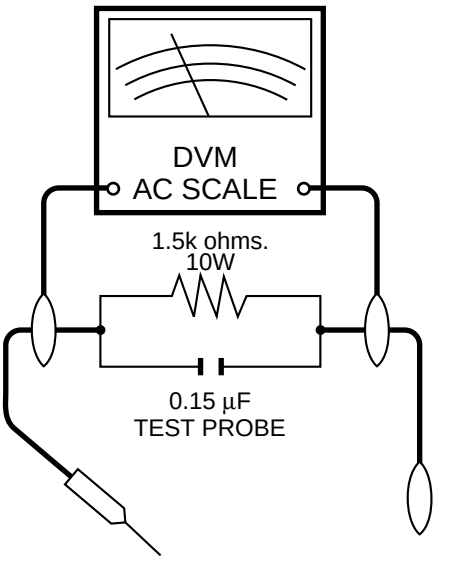
(Fire & Shock Hazard)

Before returning the monitor to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current in the following manner.

- Plug the AC Adaptor directly into a 120 volt AC outlet, and connect the DC power cable into the monitor's DC jack. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resisor.
- Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
  All checks must be repeated with the AC Adaptor plug connection reversed.(If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.3V RMS(this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



TO EXPOSED METAL PARTS

CONNECT TO KNOWN EARTH GROUND

SAFETY NOTICE

Many electrical and mechanical parts in LCD monitor have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the ***Replacement Parts Lists*** and ***Schematic Diagrams***.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock. fire. or other hazards.

1. PRECAUTIONS A PRENDRE LORS DE LA REPARATION

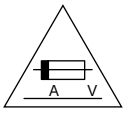
● **Ne peut effectuer la réparation qu' un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.**

AVERTISSEMENT

1. N'entreprendre aucune modification de tout circuit.
   C'est dangereux.
2. Débrancher le récepteur avant toute réparation.

PRECAUTION

POUR LA PROTECTION CONTINUE



CONTRE LES RISQUES D'INCENDIE,

REMPLACER LE FUSIBLE PAR UN FUSIBLE

DE MEME TYPE F702 (2,5A 125V), F703

(3,15A 125V), F7751 (6,3A 125V).

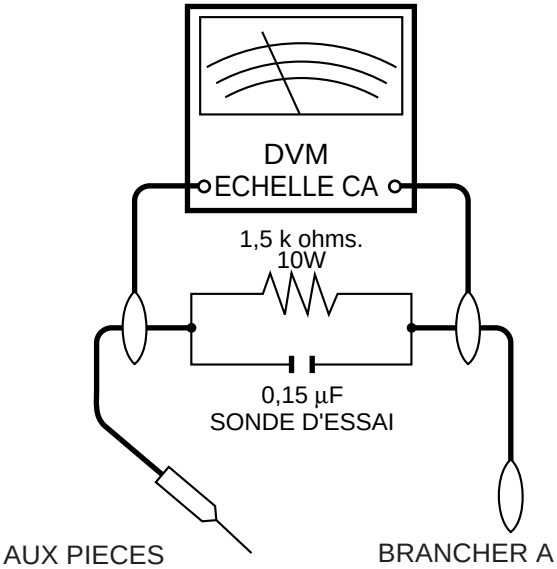
VERIFICATIONS CONTRE L'INCENDIE ET LE CHOC ELECTRIQUE

Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.

1. Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
2. Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistance-capacité, les isolateurs mécaniques, etc.
3. S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la facon suivante:

- Brancher l'adaptateur CA dans la prise CA de 120 V et le câble d'alimentation CC dans le jack du moniteur. (Ne pas utiliser un transformateur pour cet essai.)
- A l'aide de deux fils à pinces, brancher une résistance de 1,5kΩ 10 watts en paralléle avec un condensateur de 0,15μF en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.
- Utiliser un voltmètre CA d'une sensibilité d'au moins 5000Ω/V pour mesurer la chute de tension en travers de la résistance.
- Raccordez la résistance à toutes les pièces exposées qui ont un chemin de retour au châssis (antenne, coffret métallique, têtes de vis, boutons, arbres de commande, emblème, etc) et mesurez une chute de tension CA à travers la résistance.

Il faut répéter les vérifications en inversant la connexion de la fiche de l'adaptateur CA (S'il y a lieu, utilisez une fiche non polarisée pour seulement compléter ces vérifications.)
Une valeur de 0,3 V RMS ou plus (correspond à 0,2 mA C.A.) est excessive et implique un danger de secousse électrique, qui devra être supprimé avant de retourner l'appareil à l'utilisateur.



AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseurs présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans ***la liste des pièces de remplacement et les diagrammes schématiques.***
Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine.
L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.

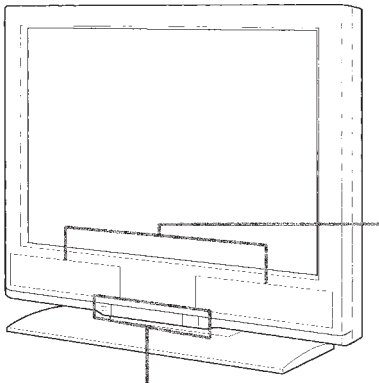
2. SPECIFICATIONS

Type:	LCD display unit (LCD color AV monitor)
Size:	20" type (298.8 mm × 401.3 mm)
Display System:	Transmitting type TN liquid crystal panel.
Driving System:	TFT (Thin Film Transistor) active matrix system
Number of Picture Elements:	921,600 (640 (H) × 3 (RBG) × 480 (V))
Speaker Output:	4.0 W (Front 0.7W + 0.7W, Rear 2.6W)
Speaker:	30 mm × 40 mm (Elliptic) × 2 (Front) ø80mm (Round) × 1
Light Source:	Edge Light (Fluorescent light cold cathode pipe × 6, Optical system)
Connected Terminals:	DC Input Terminal (DC13V), S-Video Input Terminal, Video Input Terminal 2 System, Audio Input Treminal 2 System (As for 1 system of the video input terminal, the audio input terminal, switching is possible for the one for the monitor output.) Component Video Terminal, Component Video Audio Terminal, RGB Input Terminal, Serial Control Terminal, Headphone Output Terminal
Power Source:	AC 110~240·50/60Hz (Connected to AC Adapter)
Power Consumption (Approx.):	20" type 50.7 W (DC 13V Input)
Operating Temparature:	+32°F~+104°F (0°C~40°C)
Dimensions:	460 mm (W) × 435 mm (H) × 180 mm (D) (Includes Set Stand) 18 $^{1}/_{8}$ (W) × 17 $^{9}/_{64}$ (H) × 7 $^{3}/_{32}$ (D) 460 mm (W) × 406 mm (H) × 49.5 mm (D) (Not Include Set Stand) 18 $^{1}/_{8}$ (W) × 15 $^{63}/_{64}$ (H) × 1 $^{61}/_{64}$ (D)
Weight (Approx.):	19.16 lbs (8.7 kg) (Includes Set Stand) 13.87 lbs (6.3 kg) (Not Include Set Stand)
Accessories:	Operation Manual, AC Adapter, AC Cable, Remote Control, Batteries (AAA size x 2), AV Cable, RS232C Cable, Cable Clamp (× 2), Back Cover (× 1)

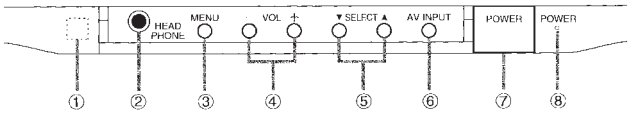
Specifications are subject to changed without prior notice.

3. PART NAMES

Main Unit (Front View)



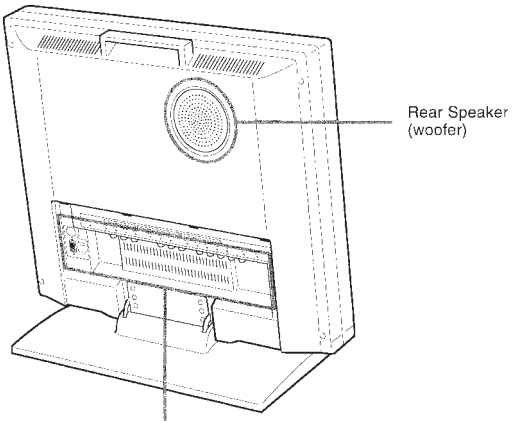
Front Control section



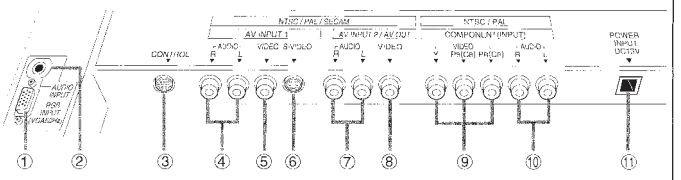
① Remote sensor window
② HEAD PHONE jack
③ MENU button
④ VOL (+)/(–) buttons
⑤ SELECT buttons
⑥ AV INPUT button
⑦ POWER switch
⑧ POWER indicator

* MENU button, VOL (+)/(–) buttons, SELECT buttons and AV INPUT button have the same function as those on the remote control.
This manual describes button functions by referring to the buttons on the remote control.

Main Unit (Rear View)

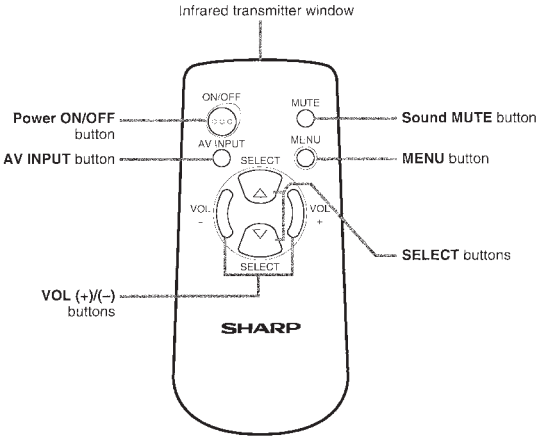


Rear terminal section



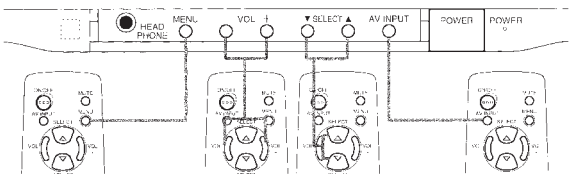
① RGB input terminal
② AUDIO input terminal
③ CONTROL terminal
④ AUDIO input terminal (AV INPUT 1)
⑤ VIDEO input terminal (AV INPUT 1)
⑥ S-VIDEO input terminal (AV INPUT 1)
⑦ AUDIO input terminal (AV INPUT 2/AV OUT)
⑧ VIDEO input terminal (AV INPUT 2/AV OUT)
⑨ VIDEO input terminal (COMPONENT)
⑩ AUDIO input terminal (COMPONENT)
⑪ DC input terminal
* ⑦ and ⑧ can also be used as video/audio output terminals

Remote control

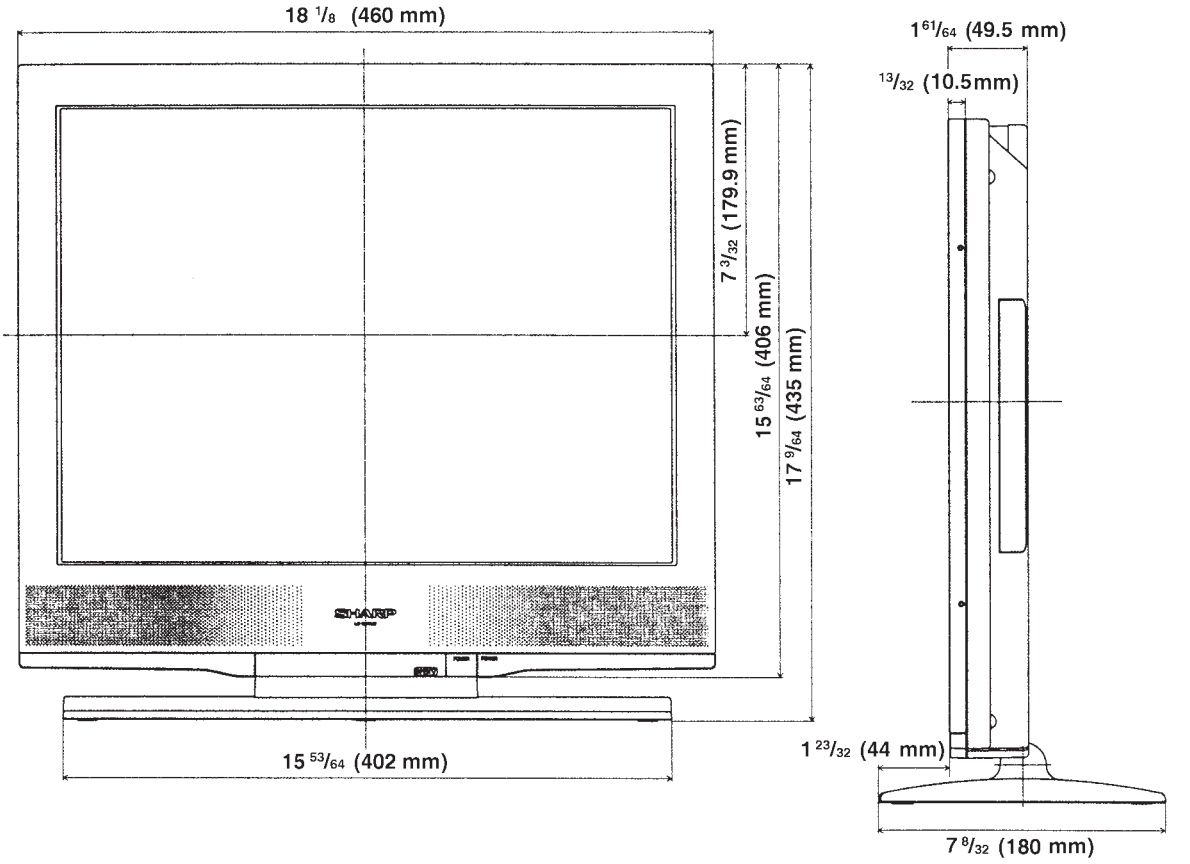


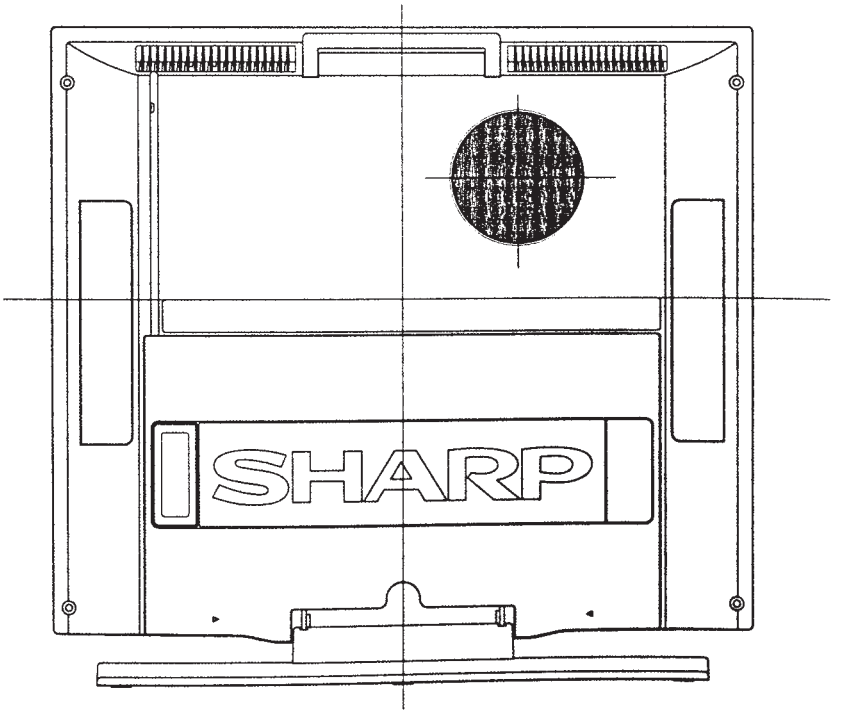
■ The front control section of the main unit is also provided with the **AV INPUT**, **SELECT**, **VOL (+)/(–)** and **MENU** buttons.
* This manual describes button functions by referring to the buttons on the remote control.

Front Control section



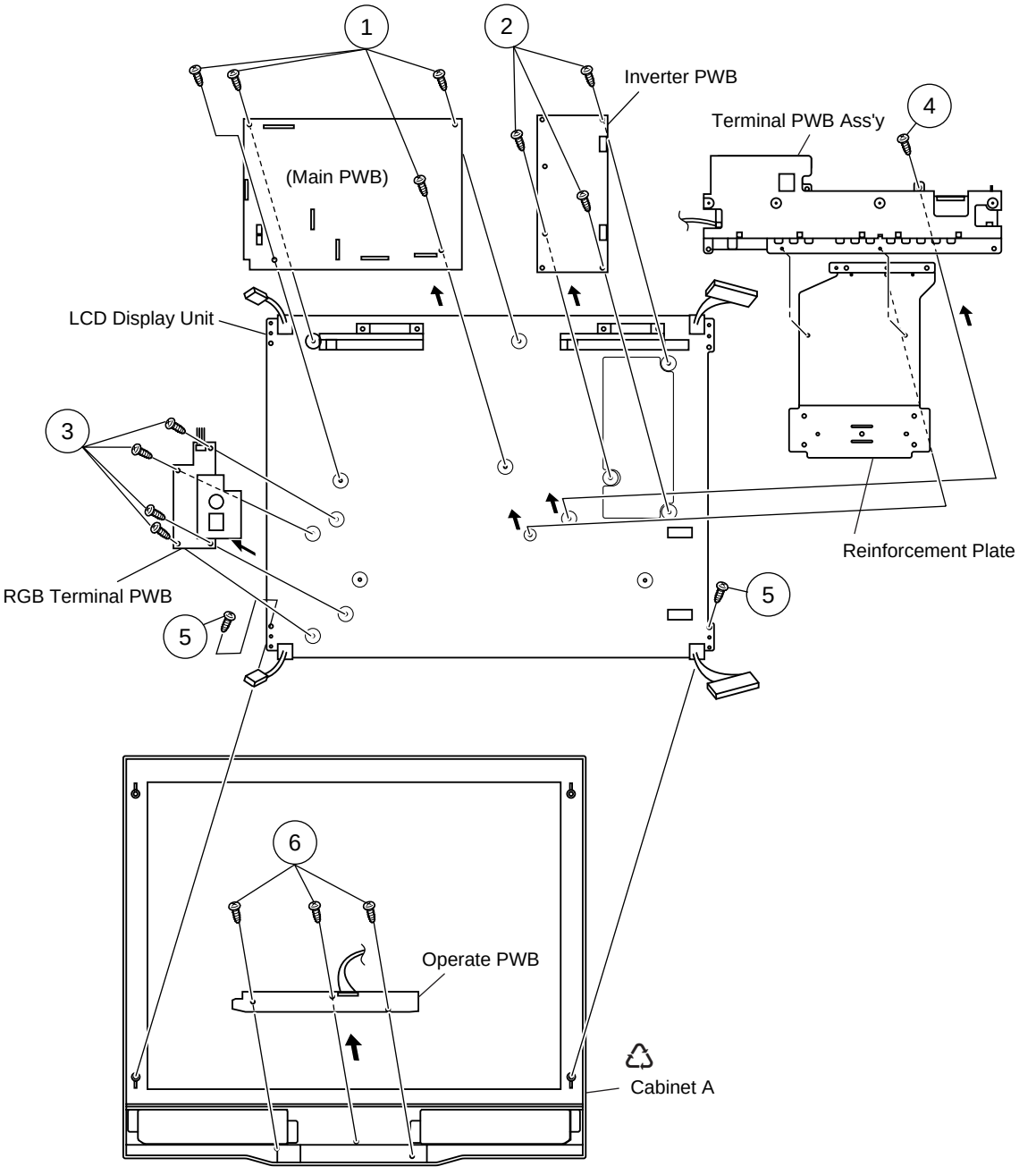
4. OUTLINE DIMENSION FIGURE





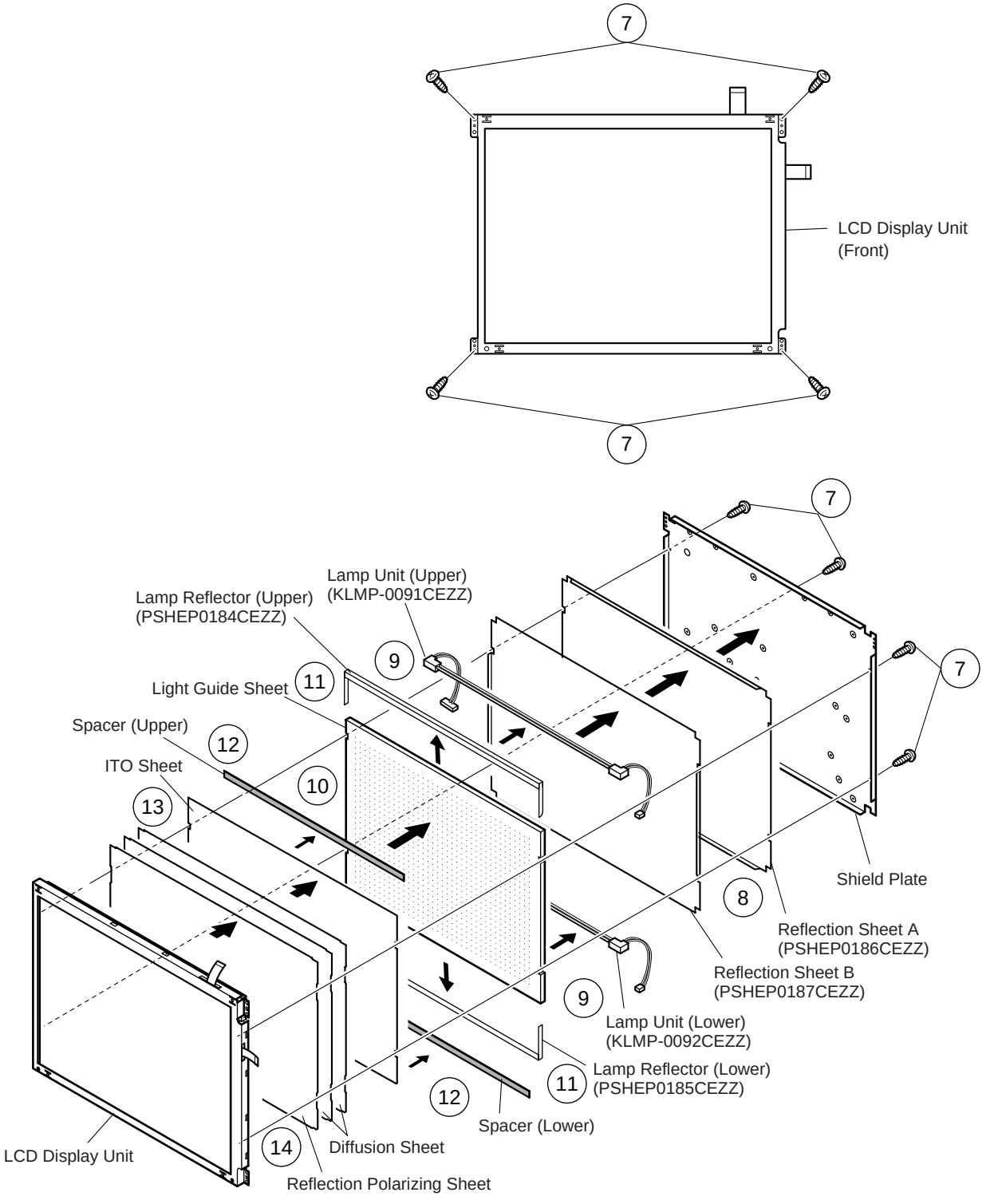
5. REMOVING THE MAIN PARTS

1. Remove the four main PWB fixing screws.
2. Remove the three inverter PWB fixing screws.
3. Remove the four RGB terminal PWB fixing screws.
4. Remove the one terminal PWB fixing screw and 1 earth fixing screw to remove the reinforcing plate.
5. Remove the two LCD unit fixing screws.
6. Remove the three operation PWB fixing screws.



• Caution for handling the LCD panel
1. Work in a clean room. (Humidity: 50% or more)
2. A worker must wear arm bands.
3. Work on a conductive mat.
4. Do not expose the unit to shock such as fall or vibration.
5. Use an ionizer. (within 30 cm)

7. Remove the four LCD unit front fixing screws and four rear fixing screws to remove the shield plate.
8. Remove the two reflection sheets.
9. Remove the upper and lower fluorescent tubes.
10. Remove the light guide plate.
11. Remove the upper and lower reflection sheets.
12. Remove the upper and lower spacers.
13. Remove the ITO sheet.
14. Remove the diffusion sheet and the reflection polarizing plate.



6. LC-20VM2 ADJUSTING METHOD

The best adjustment is made before shipping. If any position deviation is found or after part replace is performed, adjust as follows.

6-1. Preparation for adjustment

(1) Use the exclusive-use AC adapter or stable DC power supply.
AC adapter: UADP-0214CEZZ
DC power supply: 13 (V) 5(A) (Total of the triple power supply)

6-2. Special mode setting procedure

Note: When a micro-controller (IC2001) is replaced, the initialization of the E^2 memory is necessary.

(1) After initialization of E^2PROM the mode is changed to the adjustment mode.
[Procedure]
Connect TP2002 and TP2003 to GND, and turn on the power.

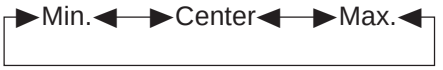
[Description]
All data are initialized.

(2) Change to adjustment mode
[Procedure]
Short-circuit TP2002 to GND, and turn on the power.
Or short-circuit TP2003 to GND, and turn on the power.
Or holding down the [AV INPUT] key and [MENU] key, turn on the main power, and simultaneously press the (inspection process) [SELECT ▼] key and [VOL–] key to change the mode to the adjustment mode.

[Description]
The manual adjustment or adjustment through communication with the automatic machine is performed.

(3) Inspection mode
[Procedure]
Holding down the [AV INPUT] key and [MENU] key, turn on the power.

[Description]
- In the ordinary menu select “PICTURE” with the [SELECT] key, and decide with the [VOL] key. Then select “CONTRAST”, “TINT (only NTSC)”, “COLOR”, “BLACK LEVEL”, “SHARPNESS”, “RED” , and “BLUE” with the [SELECT] key, and decide with the [VOL] key. After that, adjust values with the [VOL] key.
- In the ordinary menu select “SOUND” with the [SELECT] key, and decide with the [VOL] key. Then, select “TREBLE”, “BASS”, and “BALANCE” with the [SELECT] key, and decide with the [VOL] key. After that adjust values with the [VOL] key.
- VOLUME, CONTRAST, TINT (only NTSC), COLOR, BLACK LEVEL, SHARPNESS, RED, BLUE, TREBLE, BASS, and BALANCE change as follows.



(4) Shipping setting mode
[Procedure]
Holding down the [AV INPUT] key and [MENU] key, turn on the main power, and simultaneously press the (inspection process) [SELECT ▲] key and [VOL+] key to change the mode to the adjustment mode.

[Description]
User adjustment and other values are taken as defaults.
If AV1 is indicated as SETTING COMPLETE, setting has been completed.

6-3. How to exit from the special mode

Turn off the main unit power.

6-4. OSD menu indication and items in case of manual adjustment

Page	Item	Adjusting range			Remarks
		Minimum	Maximum	Initial	
1	+ B – ADJ	0	255	160	
	MODEL			VM2U	VM1/VM2E/VM2U
	NTSC/PALM OSC	0	255	128	
	PAL/SECAM OSC	0	255	128	
	ERROR NO	0		0	Number of the error detection
	ERROR RESET			WAIT	WAIT/RESET
	COM	0	255	90	
	BELL FO	0	255	120	
	B-Y BLACK LEVEL	0	15	8	
	R-Y BLACK LEVEL	0	15	8	
	COPY GUARD			ON	OFF/ON
2	SYSTEM			AUTO	N358/N443/PAL/PAL-
	LOUNDNES			OFF	ON/OFF
	TA1276 DATA				0000
	TEST PATTERN			OFF	ON/OFF
	I^2C DATA				000000
	I^2C DATA			WAIT	WAIT/SEND
	G/A W DATA				0000
	G/A W DATA			WAIT	WAIT/SEND
	G/A R DATA				00
	G/A R DATA			WAIT	WAIT/SEND
	G/A R DATA				00
	ROM COLLECTION			WAIT	To the data input screen
3	N358 BRIGHTNESS	0	255	130	
	R CUTOFF	0	255	80	
	B CUTOFF	0	255	80	
	N358 UNICOLOR	0	127	60	
	R DRIVE	0	127	64	
	B DRIVE	0	127	64	
	N358 SCOLOR	0	31	25	
	N358 TINT	0	127	67	
	N443 BRIGHTNESS	0	255	130	
	N443 UNICOLOR	0	127	50	
	N443 SCOLOR	0	31	25	
	N443 TINT	0	127	62	

Page	Item	Adjusting range			Remarks
		Minimum	Maximum	Initial	
4	PAL-M BRIGHTNESS	0	255	130	
	PAL-M UNICOLOR	0	127	50	
	PAL-M SCOLOR	0	31	24	
	PAL-M TINT	0	127	62	
	PAL BRIGHTNESS	0	255	130	
	PAL UNICOLOR	0	127	50	
	PAL SCOLOR	0	31	19	
	PAL TINT	0	127	62	
	SECAM BRIGHTNESS	0	255	130	
	SECAM UNICOLOR	0	127	80	
	SECAM SCOLOR	0	127	75	
	SECAM TINT	0	127	58	
5	DVD 60 BRIGHTNESS	0	255	130	
	DVD 60 UNICOLOR	0	127	65	
	DVD 60 COLOR	0	127	61	
	DVD 60 TINT	0	127	67	
	DVD 50 BRIGHTNESS	0	255	130	
	DVD 50 UNICOLOR	0	127	65	
	DVD 50 COLOR	0	127	61	
	DVD 50 TINT	0	127	62	
	DVD 60 R-Y PHASE	0	3	2	
	DVD 60 B-Y PHASE	0	3	3	
	DVD 50 R-Y PHASE	0	3	2	
	DVD 50 R-Y PHASE	0	3	1	
6	RGB BRIGHTNESS	0	255	70	
	RGB R CUTOFF	0	255	80	
	RGB B CUTOFF	0	255	80	
	RGB CONTRAST	0	127	90	
	RGB R DRIVE	0	127	64	
	RGB B DRIVE	0	127	64	
	MASK			OFF	ON/OFF
	HMASK-L	0	FF	2	Hexadecimal indication
	HMASK-R	0	FF	FD	Hexadecimal indication
	RGB CLOCK	0	3FF	320	Hexadecimal indication
	DATA COPY				
	AD CHECK			OFF	ON/OFF
7	AV NT/PALM H	0	7F	19	Hexadecimal indication
	DVD 60 H	0	7F	1D	Hexadecimal indication
	AV PAL H	0	7F	12	Hexadecimal indication
	DVD 50 H	0	7F	14	Hexadecimal indication
	AV SECAM H	0	7F	10	Hexadecimal indication
	RGB H	0	7F	9C	Hexadecimal indication
	RGB TEXT H	0	7F	9C	Hexadecimal indication
	NT/PALM V	1	1F	0B	Hexadecimal indication
	PAL V	1	1F	0A	Hexadecimal indication
	SECAM V	1	1F	09	Hexadecimal indication
	RGB V	1	3F	1D	Hexadecimal indication
	RGB TEXT V	1	3F	25	Hexadecimal indication

Page	Item	Adjusting range			Remarks
		Minimum	Maximum	Initial	
8	N358 R-Y PHASE	0	3	2	
	N358 B-Y PHASE	0	3	1	
	N443 R-Y PHASE	0	3	2	
	N443 B-Y PHASE	0	3	1	
	PAL-M R-Y PHASE	0	3	2	
	PAL-M B-Y PHASE	0	3	1	
	PAL R-Y PHASE	0	3	2	
	PAL B-Y PHASE	0	3	1	
	SECAM R-Y PHASE	0	3	2	
	SECAM B-Y PHASE	0	3	1	
	COLOR	0	127	60	
	SCONT	0	31	18	
9	SPEED			9600	600/1200/2400/4800/9600/19.2k
	PARITY			NONE	NONE/EVEN/ODD
	TIME OUT	0	FF	0	Hexadecimal indication
10	GAMMA TEST			OFF	ON/OFF
	AV V0	0	255	240	
	AV V0 BIAS	0	255	127	
	AV V16	0	255	185	
	AV V16 BIAS	0	255	127	
	AV V32	0	255	123	
	AV V32 BIAS	0	255	118	
	AV V48	0	255	75	
	AV V48 BIAS	0	255	127	
	AV V63	0	255	40	
	AV V63 BIAS	0	255	127	
11	GAMMA TEST			OFF	ON/OFF
	RGB V0	0	255	240	
	RGB V0 BIAS	0	255	127	
	RGB V16	0	255	185	
	RGB V16 BIAS	0	255	127	
	RGB V32	0	255	123	
	RGB V32 BIAS	0	255	118	
	RGB V48	0	255	75	
	RGB V48 BIAS	0	255	127	
	RGB V63	0	255	40	
	RGB V63 BIAS	0	255	127	

6-5. Adjustment process mode special key operation

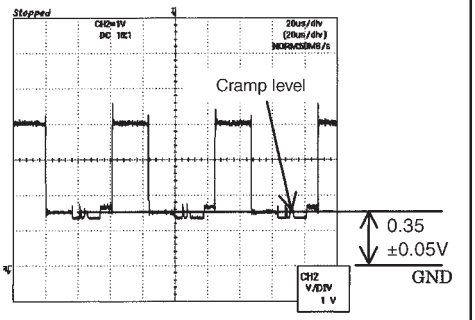
With the “AUTO PRESET” key on the remote control	Forward movement of the page
With the “MANUAL MEMORY” key on the remote control	Moves to the first line of the current page
With the “MENU” key on the remote control or the main unit	Forward movement of the selection item
With the “PICTURE SELECTION” key on the remote control	Backward movement of the selection item

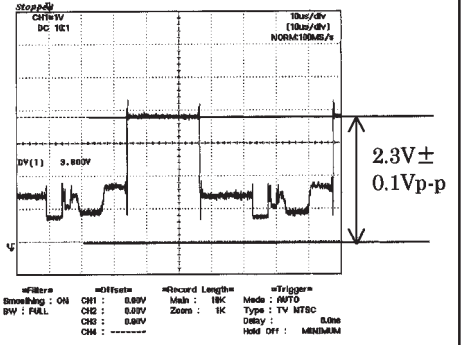
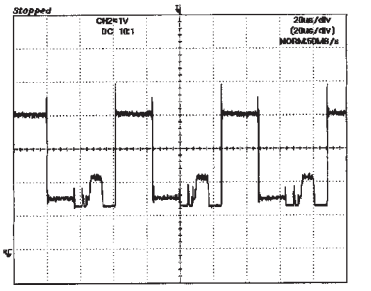
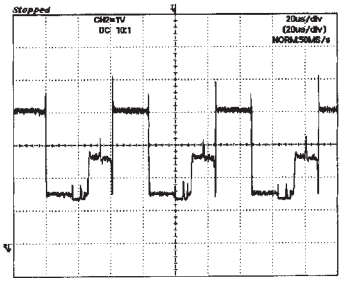
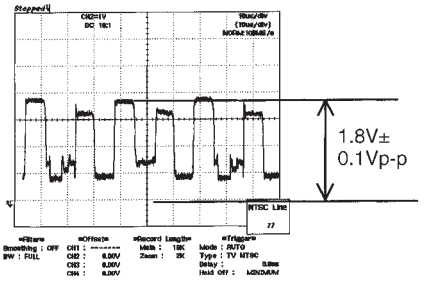
6-6. Service Adjusting

6-6-1. Main chassis adjustment

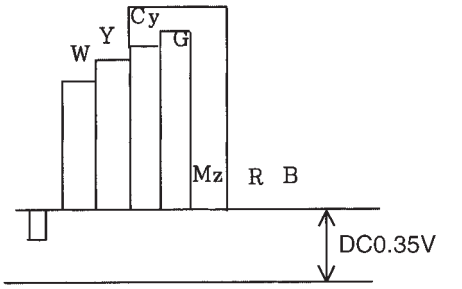
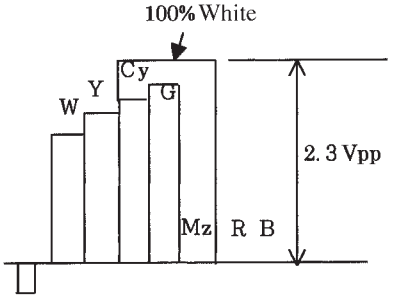
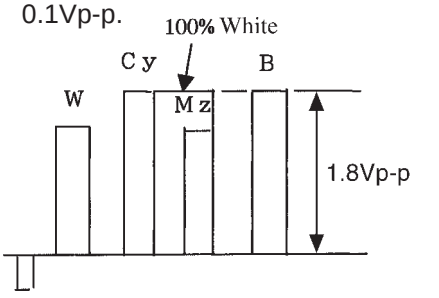
	Adjustment	Adjusting conditions	Adjusting method
1	+B Adjustment (+B ADJ Item)	1. Connect the DC voltmeter to TP1101	1. Adjust the DC/DC 5V line output voltage so as to get 5.0±0.05V. (DAC 16ch)
2	Setting (MODEL) (SYSTEM) (COPY GUARD) (MASK)		MODEL V2U SYSTEM AUTO COPY GUARD ON MASK OFF
3	Counter-bias adjustment (COM Item)	1. Set the AV1 mode to set signal noninput state. 2. Fit the specified adjusting instrument to the screen center. 3. Observe the adjusting instrument output on the oscilloscope.	1. Adjust COM so as to minimize the waveform peak-peak. (DAC2 2ch)
4	NTSC / PALM OSC adjustment (NTSC/PALM OSC Item)	1. Input the NTSC monoscope pattern to AV1.	1. Adjust OSC so as to get the normal screen.

6-6-2. N358 signal adjustment

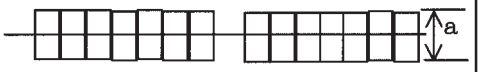
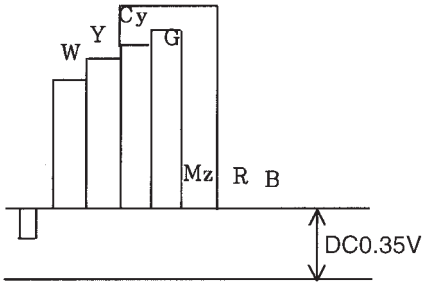
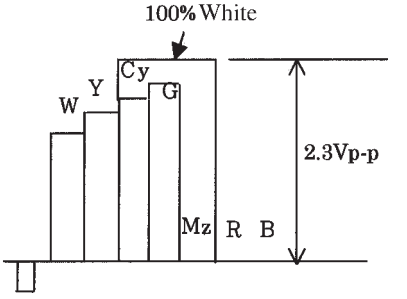
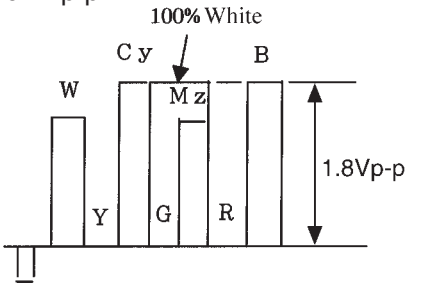
	Adjustment	Adjustment conditions	Adjustment method
1	Brightness adjustment (N358 BRIGHTNESS Item)	1. Input the NTSC standard color bar to AV1. 2. Connect the oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust N358 BRIGHTNESS, and adjust the black level of G output so as to get DC 0.35±0.05V. 
2	R CUTOFF adjustment (R CUTOFF Item)	1. Input the NTSC standard color bar to AV1. 2. Connect CH1 of the oscilloscope to TP821 (IC316, pin7, G output). 3. Connect CH2 of the oscilloscope to TP819 (IC315, pin1, R output).	1. Adjust R CUTOFF so as to equalize the black levels of green and red.

	Adjustment	Adjustment conditions	Adjustment method
3	B CUTOFF adjustment (B CUTOFF Item)	1. Input the NTSC standard color bar to AV1. 2. Connect CH1 of the oscilloscope to TP821 (IC316, pin7, G output). 3. Connect CH2 of the oscilloscope to TP820 (IC316, pin1, B output).	1. Adjust B CUTOFF so as to equalize the black levels of green and blue.
4	Unicolor adjustment (N358 UNICOLOR Item)	1. Input the NTSC standard color bar to AV1. 2. Connect the oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust N358 UNICOLOR so as to get 2.3±0.1Vp-p between the 100% white and GND. 
5	R DRIVE adjustment (R DRIVE Item)	1. Input the NTSC standard color bar to AV1. 2. Connect CH1 of the oscilloscope to TP821 (IC316, pin7, G output). 3. Connect CH2 of the oscilloscope to TP819 (IC315, pin1, R output).	1. Adjust so as to get 100% white level identical with that of green. 
6	B DRIVE adjustment (B DRIVE Item)	1. Input the NTSC standard color bar to AV1. 2. Connect CH1 of the oscilloscope to TP821 (IC316, pin7, G output). 3. Connect CH2 of the oscilloscope to TP820 (IC316, pin1, B output).	1. Adjust so as to get 100% white level identical with that of green. 
7	Colour level adjustment (N358 SCOLOR Item)	1. Input the NTSC standard color bar to AV1. 2. Connect the oscilloscope to TP820 (IC316, pin1, B output).	1. Adjust N358 SCOLOR so as to get the color bar signal blue amplitude (GND - peak level) equal to 1.8V ± 0.1Vp-p. 
8	Tint adjustment (N358 TINT Item)		1. DAC value is set in "67".

6-6-3. PAL signal adjustment

	Adjustment	Adjustment conditions	Adjustment method
1	PAL/SECAM OSC adjustment (PAL/SECAM OSC)	1. Input the PAL standard color bar to AV1.	1. Adjust PAL/SECAM OSC so that the screen becomes clear.
2	Brightness adjustment (PAL BRIGHTNESS)	1. Input the PAL standard color bar to AV1. 2. Connect oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust PAL BRIGHTNESS, and adjust the black level of G output so as to get DC 0.35±0.05V. 
3	Unicolor adjustment (PAL UNICOLOR)	1. Input the PAL standard color bar to AV1. 2. Connect oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust PAL UNICOLOR so as to get 2.3±0.05Vp-p between the 100% white and GND. 
4	Color level adjustment (PAL SCOLOR)	1. Input the PAL standard color bar to AV1. 2. Connect oscilloscope to TP820 (B output).	1. Adjust PAL SCOLOR so as to get the color bar signal blue amplitude (GND - peak level) equal to 1.8V ± 0.1Vp-p. 
5	Tint adjustment (PAL TINT)		1. DAC value is set in "62".
6	Scanning conversion oscillation adjustment (L4101)	1. Short-circuit between TP4101 and GND. 2. Connect frequency counter TP4102 and GND.	1. Adjust the frequency to 15.625± 0.01kHz by rotating L4101.
7	PAL-Y level adjustment (R4162)	1. Input the PAL standard color bar to AV1. 2. Connect oscilloscope to TP802 (B output).	1. Adjust between GND and the white 100% to 2.3V.

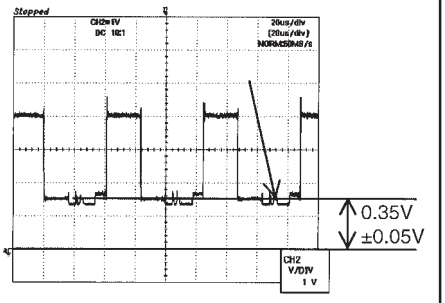
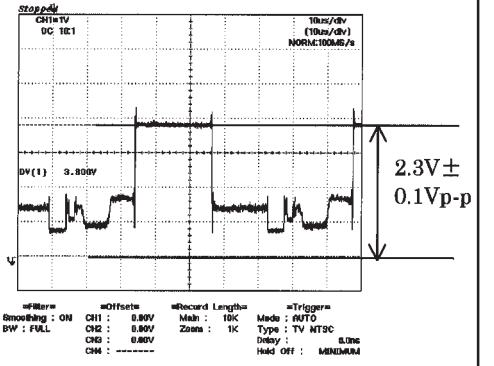
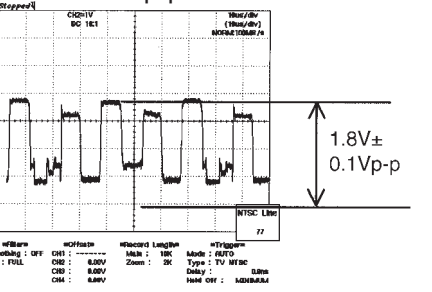
6-6-4. SECAM signal adjustment

	Adjustment	Adjustment conditions	Adjustment method
1	BELL f0 adjustment (BELL F0)	1. Connect the oscilloscope to TP2851.	1. Adjust BELL f0 so that the level of a becomes the minimum. 
2	Brightness adjustment (SECAM BRIGHTNESS)	1. Input the SECAM standard color bar to AV1. 2. Connect oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust SECAM BRIGHTNESS, and adjust the black level of G output to DC 0.35±0.05V. 
3	Unicolor adjustment (SECAM UNICOLOR)	1. Input the SECAM standard color bar to AV1. 2. Connect oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust SECAM UNICOLOR so as to get 2.3±0.05Vp-p between the 100% white and GND. 
4	Color level adjustment (SECAM COLOR)	1. Input the SECAM standard color bar to AV1. 2. Connect oscilloscope to TP820 (B output).	1. Adjust SECAM COLOR so as to get the color bar signal blue amplitude (GND - peak level) equal to 1.8V ± 0.1Vp-p. 
5	Tint adjustment (SECAM TINT)		1. DAC value is set in "58".

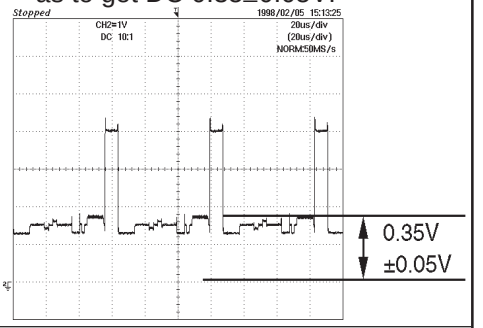
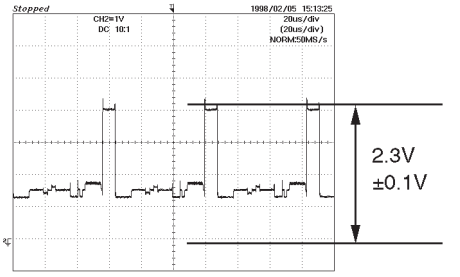
6-6-5. Data copy

	Adjustment	Adjusting conditions	Adjusting method
1	Data copy	1. A sound volume key is pushed.	1. If it is displayed with SEND and displayed with WAIT, completion (Data copies the adjustment value of the PAL item on each item of N443, PAL-M.

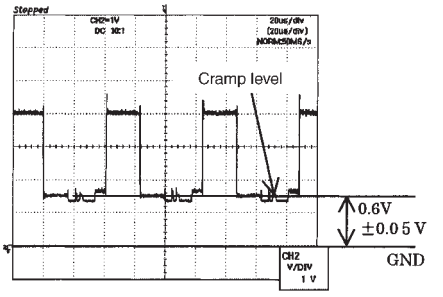
6-6-6. N443, PAL-M signal adjustment (Actual adjustment manipulation is unnecessary because PAL data is copied by the data copy manipulation of the former term.

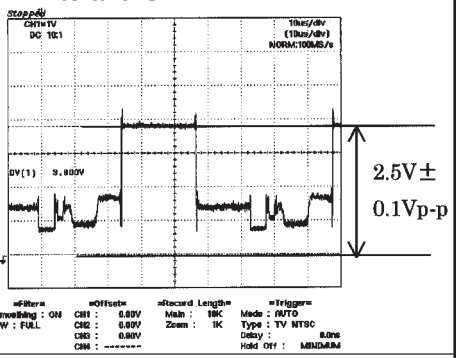
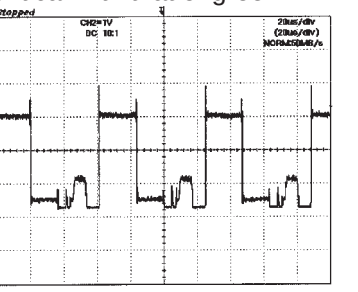
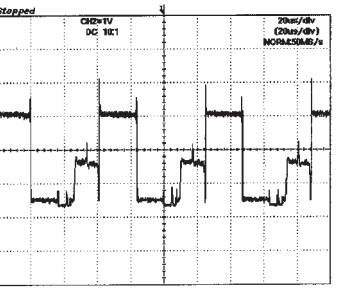
	Adjustment	Adjusting conditions	Adjusting method
1	Brightness adjustment (N443, PAL-M BRIGHTNESS Item)	1. Input the NTSC standard color bar to AV1. 2. Connect oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust N443 BRIGHTNESS, and adjust the black level of G output so as to get DC 0.35±0.05V. 
2	Unicolor adjustment (N443, PAL-M UNICOLOR Item)	1. Input the NTSC standard color bar to AV1. 2. Connect oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust TV UNICOLOR so as to get 2.3±0.1Vp-p between the 100% white and GND. 
3	Color level adjustment (N443, PAL-M SCOLOR Item)	1. Input the NTSC standard color bar to AV1. 2. Connect oscilloscope to TP820 (IC316, pin1, B output).	1. Adjust N443 SCOLOR so as to get the color bar signal blue amplitude (GND level - peak level) equal to 1.8V ± 0.1Vp-p. 
4	Tint adjustment (N443, PAL-M TINT Item)		1. DAC value is set in "62".

6-6-7. Component (50/60Hz) input adjustment

	Adjustment	Adjusting conditions	Adjusting method
1	Brightness adjustment (DVD 50/60 BRIGHTNESS Item)	1. From SG, input the 100% white color bar signal of PAL into conponent terminal. 2. Connect oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust DVD 50/60 BRIGHTNESS, and adjust the black level of G output so as to get DC 0.35±0.05V. 
2	Unicolor adjustment (DVD 50/60 UNICOLOR Item)	1. From SG, input the 100% white colour bar signal of PAL into conponent terminal. 2. Connect oscilloscope to TP820 (IC316, pin1, B output).	1. Adjust DVD 50/60 UNICOLOR so as to get 2.3±0.1Vp-p between the 100% white and GND. 
3	Color level adjustment (DVD 50/60 COLOR Item)		1. DAC value is set in "61".
4	Tint adjustment (DVD 50/60 TINT Item)		1. DAC value is set in DVD 60 TINT "67" DVD 50 TINT "62".

6-6-8. RGB signal adjustment

	Adjustment	Adjusting conditions	Adjusting method
1	RGB Brightness adjustment (RGB BRIGHTNESS Item)	1. Input the test pattern to RGB. 2. Connect oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust RGB BRIGHTNESS, and adjust the black level of G output so as to get DC 0.6±0.05V. 
2	RGB R CUTOFF adjustment (RGB R CUTOFF off Item)	1. Input the test pattern to RGB. 2. Connect CH1 of the oscilloscope to TP821 (IC316, pin7, G output). 3. Connect CH2 of the oscilloscope to TP819 (IC315, pin1, R output).	1. Adjust RGB R CUTOFF so as to equalizethe black levels of green and blue.
3	RGB B CUTOFF adjustment (RGB B CUTOFF off Item)	1. Input the test pattern to RGB. 2. Connect CH1 of the oscilloscope to TP821 (IC316, pin7, G output). 3. Connect CH2 of the oscilloscope to TP820 (IC316, pin1, B output).	1. Adjust RGB B CUTOFF so as to equalizethe black levels of green and blue.

	Adjustment	Adjusting conditions	Adjusting method
4	RGB Contrast adjustment (RGB CONTRAST Item)	1. Input the test pattern to RGB. 2. Connect the oscilloscope to TP821 (IC316, pin7, G output).	1. Adjust RGB CONTRAST so as to get 2.5±0.1Vp-p between the 100% white and GND. 
5	RGB R DRIVE adjustment (RGB R DRIVE Item)	1. Input the test pattern to RGB. 2. Connect CH1 of the oscilloscope to TP821 (IC316, pin7, G output). 3. Connect CH2 of the oscilloscope to TP819 (IC315, pin1, R output).	1. Adjust so as to get 100% white level identical with that of green. 
6	RGB B DRIVE adjustment (RGB B DRIVE Item)	1. Input the test pattern to RGB. 2. Connect CH1 of the oscilloscope to TP821 (IC316, pin7, G output). 3. Connect CH2 of the oscilloscope to TP820 (IC316, pin1, B output).	1. Adjust so as to get 100% white level identical with that of green. 

6-6-9. Finished adjustment
(1)N358 finished adjustment

	Adjustment	Adjusting conditions	Adjusting method
1	Confrontation bias adjustment (The 12th-page COM Item)	1. A confrontation adjustment pattern is displayed.	1. It is adjusted so that the flicker of the image plane may stop in the confrontation adjustment pattern.
2	Black level adjustment (The 12th-page N358 BRIGHTNESS Item)	1. A JA-5CH signal is displayed.	1. It confirms that the third gradation is a cut-off point from the left of the gradation pattern.
3	White balance adjustment (The 12, 13th-page N358 R CUTOFF N358 B CUTOFF N358 R DRIVE N358 B DRIVE Item)	1. A JA-6CH signal is displayed.	1. White balance in comparison with the Typ monitor.

(2) PAL finished adjustment

	Adjustment	Adjusting conditions	Adjusting method
1	Black level adjustment (The 14th-page PAL BRIGHTNESS Item)	1. Set is set in the compulsion PAL mode. 2. A JA-5CH signal is displayed.	1. It confirms that the third gradation is a cut-off point from the left of the gradation pattern.

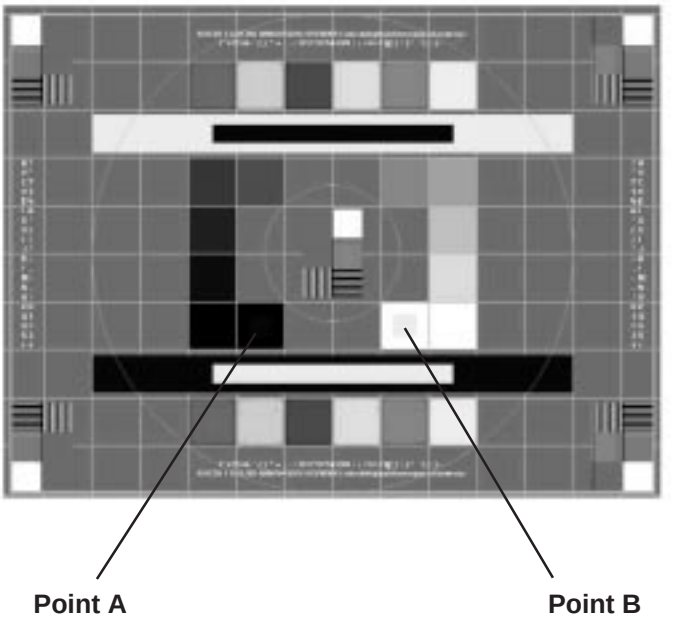
(3) DATA Copy

A sound volume key is manipulated in accordance with the data copy item.
Data is copied on each item of N443, PAL-M the adjustment value of the PAL item.

(4) RGB finished adjustment

	Adjustment	Adjusting conditions	Adjusting method
1	Black level contrast confirmation (The 4th-page RGB BRIGHTNESS RGB CONTRAST Item)	1. The test pattern of the figure 1 is displayed.	1. 5 step RGB BRIGHTNESS value is given to it by the figure 1 A point more than a cut-off. 2. 5 step RGB CONTRAST value is lowered by the figure 1 B point more than white level saturation.

Figure 1



6-7. Monitor default settings

(1)Press the default setting key on the remote control after turning on the power switch.
"SETTING COMPLETE" appears on the screen.
The setting details are as follows:

CONTRAST	CENTER
BRIGHTNESS	CENTER
COLOR	CENTER
TINT	CENTER
BACK LIGHT	AUTO
COLOR SYSTEM	AUTO

7. INTEGRATED CIRCUIT TERMINAL ARRANGEMENTS

7-1. IC2001 (QFP, 80pins) MICRO CONTROLER

Terminal No.	Terminal name	I/O	Function	Type
1	N. C	–		—
2	N. C	–		—
3	SCL	I/O	I^2C bus serial clock line	OD
4	SDA	I/O	I^2C bus serial data line	OD
5	HP DET	I	Headphon input pickup	OD
6	DCLK	O	Clock for communication	OD
7	DOUT	O	Data output for communication	OD
8	DIN	I	Data input for communication	OD
9	FS MUT	O	Front speaker MUTE output	OD
10	RS MUT	O	Rear speaker MUTE output	OD
11	N. C	–		—
12	N. C	–		—
13	CSYNC	I	Composite sync signal input	OD
14	KEY1	I	Key input 1	OD
15	REQ	O	“H” in SECAM mode, “L” in other modes.	PP
16	GAEN	I	G/A read enable	PP
17	MRDY	I	I^2C bus opening/connection selection input	OD
18	SIN	I	232C data input	OD
19	SCLK	I/O	232C clock signal	PU
20	SOUT	O	232C data output	OD
21	1 VIN	I	DC/DC1V voltage input	OD
22	5 VIN	I	DC/DC5V voltage input	OD
23	SCAN	O	PAL scanning line switching	OD
24	LMUTE	O	Lineout-Mute output	OD
25	N. C	–		—
26	N. C	–		—
27	CNV s s		GND connection	—
28	ϕ	O	Timing output	PP
29	RESET	I	Change to “Reset mode” in “L” state	—
30	Xin	I	Microcomputer oscillator connection	—
31	Xout	O	Microcomputer oscillator connection	—
32	V s s	I	GND terminal	—
33	STB	O	Microcomputer power OFF output	PP
34	POWOUT	O	DC/DC control output	PP
35	COCS	O	G/A chip selection output	PP
36	DA1CS	O	D/A1 chip selection output	PP
37	DA2CS	O	D/A2 chip selection output	PP
38	232CCS	O	232C chip selection output	PP
39	N. C	–		—
40	N. C	–		—
41	L/R	O	When the right and left are reversed: H, Normal: L	PP
42	YC	O	Dynamic YC separation	PP
43	AV/RGB	O	Analog SW selection 2	PP
44	Y/COM	O	Analog SW selection 3	PP
45	IN/OUT	O	Video 2 input/monitor output switching	PP
46	N358	O	“H” in N358 mode, “L” in other modes.	PP
47	N443	O	“H” in N443 mode, “L” in other modes.	PP
48	PAL	O	“H” in PAL mode, “L” in other modes.	PU
49	SECAM	O	“H” in SECAM mode, “L” in other modes.	PU

Terminal No.	Terminal name	I/O	Function	Type
50	PALM	O	“H” in PALM mode, “L” in other modes.	PP
51	N. C	–		—
52	N. C	–		—
53	N. C	–		—
54	B/W	O	Black and white: H, Others: L	PP
55	N. C	–		—
56	N. C	–		—
57	N. C	–		—
58	PSWIN	I	Power switch input	PP
59	L_ERR	I	Fluorescent light error detection	PP
60	KEY3	I	Key input 3 (For inspection process)	PP
61	KEY4	I	Key input 4 (For adjust process)	PP
62	BLK		OSD blanking output	PP
63	HPMUTE	O	Headphon MUTE	PP
64	N. C	–		—
65	N. C	–		—
66	B OUT	O	B signal output	PP
67	G OUT	O	G signal output	PP
68	R OUT	O	R signal output	PP
69	Vsync	I	OSD virtical sync signal input	—
70	Hsync	I	OSD horizontal sync signal input	—
71	N. C	–		—
72	Vcc	I	Positive voltage power terminal	—
73	N. C	–		—
74	OSCI		OSD clock	—
75	N. C	–		—
76	N. C	–		—
77	IRQ	I	Communication interrupt detection	OD
78	KEY2	I	Key input 2	OD
79	IREM	I	Ir Remotecontrol input	OD
80	N. C	–		—

7-2. IC1201 LCD CONTROLER

Terminal No.	Symbol	I/O	Voltage	Function block	Function
1	OSD_BK	I	5V		OSD Blanking input (FB SW)
2	OSD_R	I	5V		OSD R signal input
3	OSD_G	I	5V		OSD G signal input
4	OSD_B	I	5V		OSD B signal input
5	OSDVD	O	5V		OSD V output
6	OSDHD	O	5V		OSD H output
7	OSDCK	O	5V		OSD clock output
8	PC_CSY	O	5V	PC_VGA	PC composition synchronous output, Modification
9	GND				
10	VDD5	I	5V		5V power supply terminal
11	OFL	TO	5V	PWM Control	Lamp dimming control output
12	MP_DA	I	5V	Serial I/F	3-wire serial I/F data input signal
13	MP_CK	I	5V	Serial I/F	3-wire serial I/F clock input signal
14	MP_CS	I	5V	Serial I/F	3-wire serial I/F chip selection input signal
15	MP_RCS	O	5V	Serial I/F	Serial I/F READ CS signal
16	MP_RDA	O	5V	Serial I/F	Serial I/F READ data signal
17	CSYNC	I	5V	VIDEO PLL	Composit signal input
18	PDP	TO	5V	VIDEO PLL	PLL control signal output
19	GND				
20	OSCI	I	5V	VIDEO PLL	PLL ocsillation input
21	OSCO	O	5V	VIDEO PLL	PLL ocsillation output I_{OL}=3.0Ma
22	VDD5		5V		5V power supply terminal
23	GND				
24	OHSYN	O	5V	VIDEO PLL	OHSYN=CSYNC*FREE*POL I_{OL}=1.0mA
25	DVDO	O	5V	Sync signal process	Digital sync separation output I_{OL}=1.0mA
26	VSYN	I	5V	Sync signal process	Virtical sync signal , Digital countdown input
27	GST	I	5V	LCD TIMING	Reset input terminal
28	GND				
29	REV	O	5V	LCD TIMING	Gradation power supply, inversion timing I_{OL}=1.0mA
30	REVV0	O	5V	LCD TIMING	Common inversion timing I_{OL}=1.0mA
31	GSP1	TO	5V	LCD TIMING	Gate, SPS signal I_{OL}=1.0mA
32	GCK	TO	5V	LCD TIMING	Gate, CLS signal output I_{OL}=1.0mA
33	GND				
34	OOR7	O	3V	RGB gradation process	RED signal output (MSB)
35	OOR6	O	3V	RGB gradation process	
36	OOR5	O	3V	RGB gradation process	
37	OOR4	O	3V	RGB gradation process	
38	OOR3	O	3V	RGB gradation process	
39	OOR2	O	3V	RGB gradation process	RED signal output (LSB)
40	PC_HSY	I	3V		PC VGA HSYNC INPUT
41	PC_VSY	I	3V		PC VGA VSYNC INPUT
42	GND				
43	OOG7	O	3V	RGB gradation process	GREEN signal output (MSB)
44	OOG6	O	3V	RGB gradation process	
45	OOG5	O	3V	RGB gradation process	
46	OOG4	O	3V	RGB gradation process	
47	OOG3	O	3V	RGB gradation process	
48	OOG2	O	3V	RGB gradation process	GREEN signal output (LSB)

Terminal No.	Symbol	I/O	Voltage	Function block	Function
49	GND	O	3V		
50	VDD	O	3V		
51	HDCK	O	3V	LCD TIMING	Not used I_{OL}=3.0mA
52	OCK	O	3V	LCD TIMING	SOURCE driver clock I_{OL}=3.0mA
53	GND				
54	OOB7	O	3V	RGB gradation process	BLUE signal output (MSB)
55	OOB6	O	3V	RGB gradation process	
56	OOB5	O	3V	RGB gradation process	
57	OOB4	O	3V	RGB gradation process	
58	OOB3	O	3V	RGB gradation process	
59	OOB2	O		RGB gradation process	BLUE signal output (LSB)
60	GND				
61	REF_CKI	I	3V		Reference clock input
62	VGA_PDP	O	5V		Phase comparison waveform for PC
63	VGA_CLK	I	5V		Clock for PC
64	VGA_HS	O	5V		Horizontal synch signal for PC_PLL
65	GND				
66	SPLS	TO	3V	LCD TIMING	Sampling start signal (Note 1)
67	SPRS	TO	3V	LCD TIMING	Sampling start signal (Note 1)
68	LBR	O	3V	LCD TIMING	Horizontal scan direction switching signal (Note 1)
69	HGO	O	3V	LCD TIMING	SOURCE driver timing signal
70	POWER	O	5V	LCD TIMING	Power signal
71		I	5V	Common	
72	GND				
73	U/D	O	5V		An up-down inversion signal
74	TM1	O	3V		
75	TM2	O	3V	LCD TIMING	Gate U/D
76	VDD		3V		
77	GND				
78	R7	I	3V	RGB gradation process	RED input (LSB)
79	R6	I	3V	RGB gradation process	
80	R5	I	3V	RGB gradation process	
81	R4	I	3V	RGB gradation process	
82	R3	I	3V	RGB gradation process	
83	R2	I	3V	RGB gradation process	
84	R1	I	3V	RGB gradation process	
85	R0	I	3V	RGB gradation process	RED signal input (MSB)
86	GND	I	3V		
87	G7	I	3V	RGB gradation process	GREEN signal input (LSB)
88	G6	I	3V	RGB gradation process	
89	G5	I	3V	RGB gradation process	
90	G4	I	3V	RGB gradation process	
91	G3	I	3V	RGB gradation process	
92	G2	I	3V	RGB gradation process	
93	G1	I	3V	RGB gradation process	
94	G0	I	3V	RGB gradation process	GREEN signal input (MSB)
95	TM3	O			
96	TM4	O			
97	GND				
98	TST8	I	3V	Test signal(Internal PD)	

Terminal No.	Symbol	I/O	Voltage	Function block	Function
99	TST7	I	3V	Test signal(Internal PD)	
100	TST6	I	3V	Test signal(Internal PD)	
101	TST5	I	3V	Test signal(Internal PD)	
102	TST4	I	3V	Test signal(Internal PD)	A/D clock terminal input/output switching for test
103	TST3	I	3V	Test signal(Internal PD)	
104	TST2	I	3V	Test signal(Internal PD)	
105	TST1	I	3V	Test signal(Internal PD)	
106	TSH	I	3V	Horizontal synch signal for test	
107	GND				
108	ADCK	I/O	3V	VIDEO PLL	A/D clock output
109	TST9	I	3V		
110	PC_VD	I	3V	Common	SPLS, SPRS polarity setting
111	SECAM	O	3V	Common	
112	VDD		3V		
113	GND				
114	B7	I	3V	RGB gradation process	BLUE signal input (LSB)
115	B6	I	3V	RGB gradation process	
116	B5	I	3V	RGB gradation process	
117	B4	I	3V	RGB gradation process	
118	B3	I	3V	RGB gradation process	
119	B2	I	3V	RGB gradation process	
120	B1	I	3V	RGB gradation process	
121	B0	I	3V	RGB gradation process	BLUE signal input (MSB)
122	GND				
123	OCVD	O	3V	Sync signal process	Vertical synch signal, Digital countdown output
124	TSV	I	3V	LCD TIMING	Vertical synch signal input
125	ETWEN	I	5V	LCD TIMING	External MBK signal input (Scanning conversion PWB)
126	OSCOZ	I	3V	LCD TIMING	15.1" support
127	OSCIZ	I	3V	LCD TIMING	SPLS, SPRS polarity setting
128	GND				

7-3. IC7001 (100pin, QFP) 3D Y/C

Terminal No.	Symbol	I/O	Level	Buffer Type PU/PD[kΩ]	Function
1, 40, 55,80	DGND	-	-		Digital section ground
45, 64, 100	DVDD	-	-		Digital section power supply
98	MRAS	O	TTL	1mA	RAS output for external EDO memory (Active Low)
99	MA8	O	TTL	1mA	Address output for external EDO memory
2-9	MA7-MA0	O	TTL	1mA	Address output for external EDO memory
10	MCAS	O	TTL	1mA	CAS output for external EDO memory (Active Low)
11	MWE	O	TTL	1mA	WE output for external EDO memory (Active Low)
12	MOE	O	TTL	1mA	OE output for external EDO memory (Active Low)
13-28	MIO15-MIO0	I/O	TTL Tin-state	1mA/5V withstand voltage	Data input/output for external EDO memory
29	MGND	-	-		fsc generator,digital section ground
30	XI	I	-		fsc generator,reference clock input (Connect Xtal)
31	XO	O	-		fsc generator,reference clock reverse output (Connect Xtal)
32	DVDD	-	-		fsc generator,digital section power supply
33-36	HO3-HO0 (MSB)-(LSB)	O	TTL Tin-state	1mA	Data output for external field memory (Open when not used)
37	HWCK	O	TTL Tin-state	3mA	Write clock output for external field memory (Open when not used)
38	HRCK	O	TTL Tin-state	3mA	Read clock output for external field memory (Open when not used)
39	HRST	O	TTL Tin-state	1mA	Reset signal output for external field memory (Open when not used)
41-44	HI3-HI0 (MSB)-(LSB)	I	TTL	5V withstand voltage	Input for external field memory (GND connection when not used)
46	AVDD	-	-		fsc generator, DAC section power supply
47	FSCO	-	Analog		fsc generator, fsc output
48	AGND	-	-		fsc generator, DAC section ground
49	AGND	-	-		8fsc-PLL, ground
50	FSCI	-	Analog		8fsc-PLL, fsc input
51	CPLL	-	-		8fsc-PLL, filter output (GND connection)
52	RPLL	I	Schmitt	PU:50	Test input (GND connection)
53	AVDD	-	-		8fsc-PLL section power supply
54	CKMD	I	TTL	5V withstand voltage PD:50	CLK8 test mode selection (L: Normal, H: Test mode)(GND connection)
56	CLK8	O/I	TTL Tin-state	3mA/5V withstand voltage	8fsc clock output (8fsc clock input in the CLK8 test mode)
57	RSTB	I	Schmitt	5V withstand voltage PU:50	System reset input (Active Low) (Input of active low reset pulse from external)

Terminal No.	Symbol	I/O	Level	Buffer Type PU/PD[kΩ]	Function
58	SLA0	I	TTL	5V withstand voltage PD:50	I^2C bus slave address selection input (L: B8/B9h, H: BA/BBh)
59	SCL	I	Schmitt	5V withstand voltage	I^2C bus clock input (Connect to system's SCL line)
60	SDA	I/O	Schmitt Not Open drain	5mA/5V withstand voltage	I^2C bus data input/output (Connect to system's SDA line)
61	ST0	O	TTL	1mA	Internal signal monitor output
62	ST1	O	TTL	1mA	Internal signal monitor output
63	NSTD	O	TTL	1mA	Nonstandard detection monitor output (L: Standard decision H: Nonstandard decision)
65, 66	DYCO0-DYCO1 (LSB)-(MSB)	I/O	TTL	1mA/5V withstand voltage	EXADINS=0: Digital YC signal alternate output (lower 2-bit) EXADINS=1: Test input (GND connection through resister)
67-74	DYCO2-DYCO9 (LSB)-(MSB)	I/O	TTL	1mA/5V withstand voltage	EXADINS=0: Digital YC signal alternate output (upper 8-bit) EXADINS=1: 8-bit data input for external Y-ADC
75	ALTF	O	TTL	1mA	EXADINS=0: Digital YC signal alternate flag output (L:Y, H:C) EXADINS=1: 4fsc clock output for external Y-ADC
76	CSI	I	Schmitt	5V withstand voltage PD:50	Composite sink input (Active low)
77	TEST	I	TTL	5V withstand voltage PD:50	Test terminal for IC selection (L: Normal operation, H: Test mode) (GND connection)
78	LINE	I	TTL	5V withstand voltage PD:50	Forced line process selection input (L: Normal process, H: Forced line process)
79	KIL	I	TTL	5V withstand voltage PD:50	External killer input (L: Normal process, H: Forced YC separation stop)
81	AVDD	-	-		Y-DAC, C-DAC power supply
82	CBPC	O	Analog		C-DAC phase compensation output
83	ACO	O	Analog		C-DAC analog C signal output
84	AYO	O	Analog		Y-DAC analog Y signal output
85	CBPY	O	Analog		Y-DAC phase compensation output
86	AGND	-	-		Y-DAC, C-DAC ground
87	AGND	-	-		Y-ADC ground
88	AYI	I	Analog		Y-ADC analog composite signal /Y signal input
89	VCLY	O	Analog		Y-ADC clamp potential output
90	VRBY	O	Analog		Y-ADC bottom reference voltage output
91	VRTY	O	Analog		Y-ADC top reference voltage output
92	AVDD	-	-		Y-ADC, C-ADC power supply
93	AVDD	-	-		Y-ADC, C-ADC power supply
94	VRTC	O	Analog		C-ADC top reference voltage output

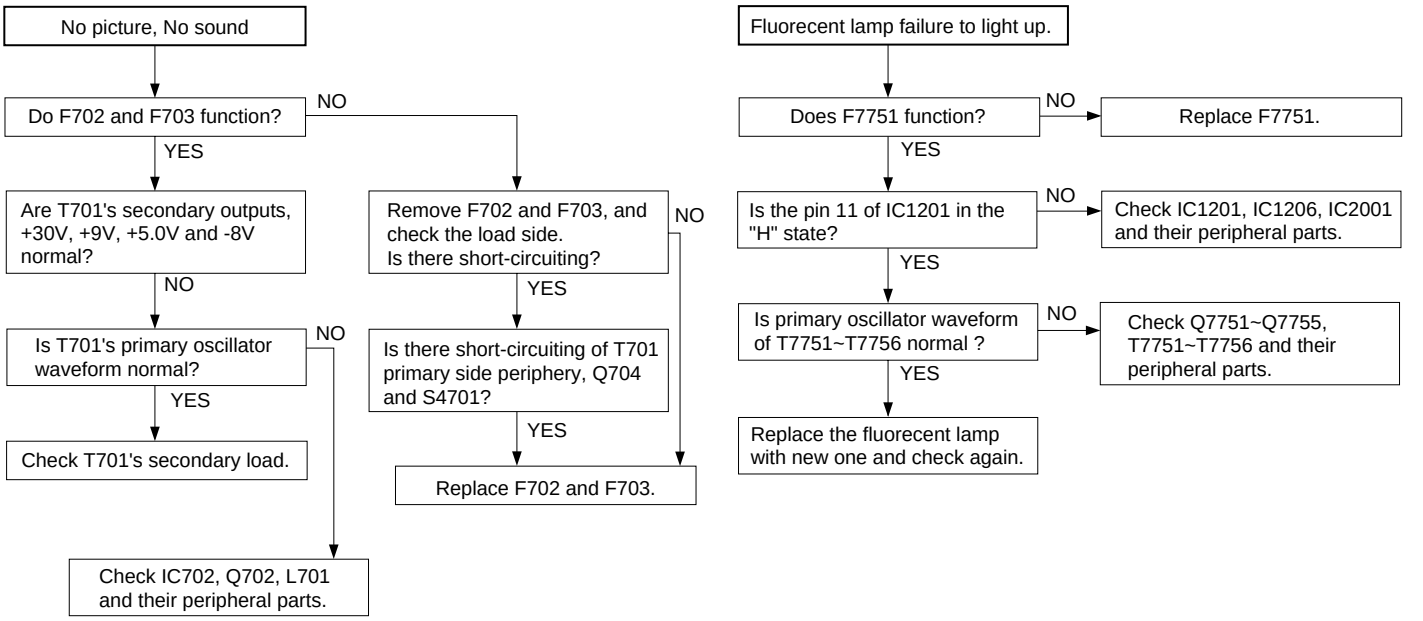
Terminal No.	Symbol	I/O	Level	Buffer Type PU/PD[kΩ]	Function
95	VRBC	O	Analog		C-ADC bottom reference voltage output
96	ACI	I	Analog		C-ADC analog C signal input
97	AGND	-	-		C-ADC ground

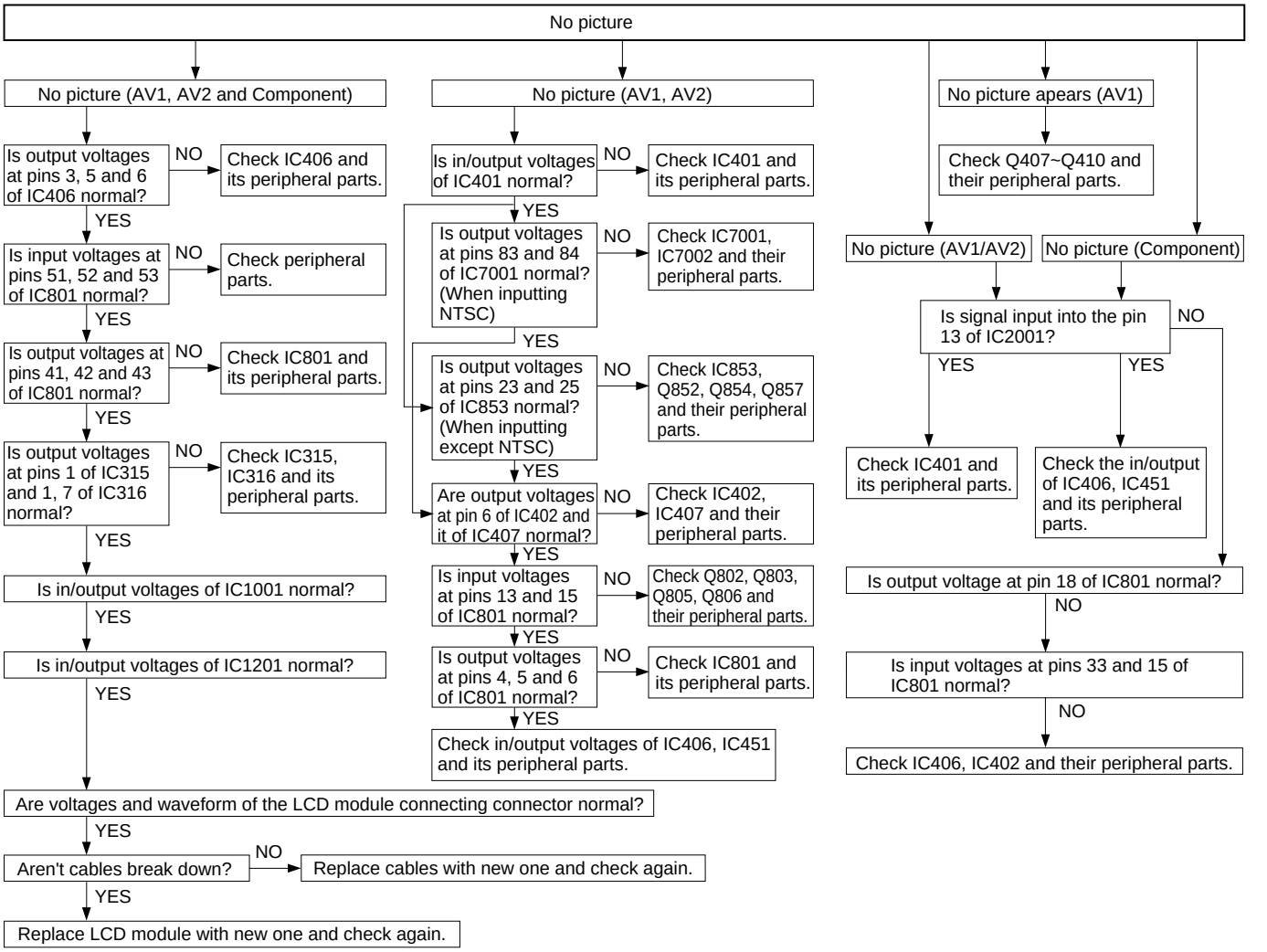
7-4. IC4101 (128pin, QFP)

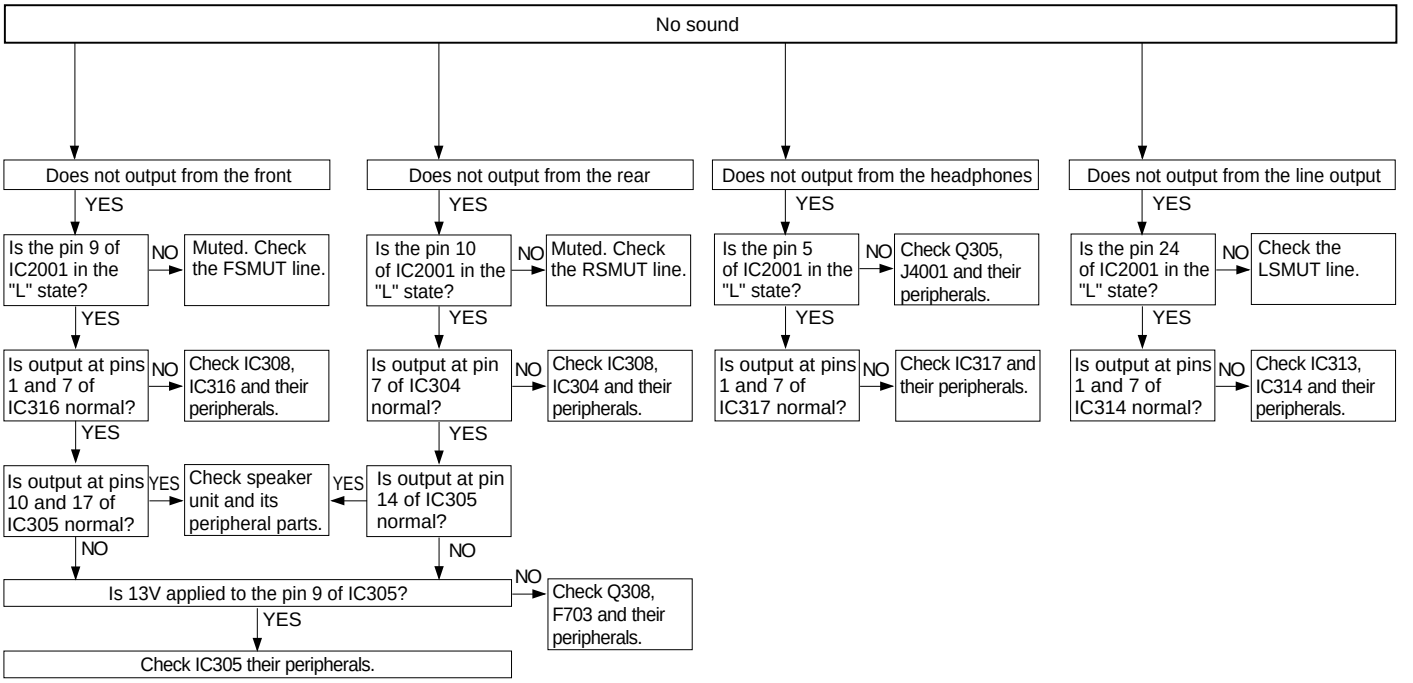
Pin No.	PAD	Pin Name	I/O TYPE	I/O CELL	I/F CELL	Pin No.	PAD	Pin Name	I/O TYPE	I/O CELL	I/F CELL
1	112	VDD (+5V)	P	VDD		43	34	PHDEN	I	IBC	
2	**	* *	*	**		44	35	PLLMO	O	UO1	PDVN
3	**	* *	*	**		45	36	PCLKIN	I	IBC	
4	**	* *	*	**		46	37	VDD (+5V)	P	VDD1	
5	**	* *	*	**		47	38	ADCLK	O	UO3	PDVN
6	1	NRST	I	IBC		48	39	ADCLK2	O	UO1	PDVN
7	2	VSS (GND)	P	VSS1		49	40	VSS (GND)	P	VSS1	
8	3	BDOUT0	O	UO1	PDVN	50	41	ETWDR	O	UO2	PDVN
9	4	BDOUT1	O	UO1	PDVN	51	42	ETRDR	O	UO2	PDVN
10	5	BDOUT2	O	UO1	PDVN	52	43	NHDOLY	O	UO2	PDVN
11	6	BDOUT3	O	UO1	PDVN	53	44	NHDIN	I	IBC	
12	7	BDOUT4	O	UO1	PDVN	54	45	NHDOUT	O	UO2	PDVN
13	8	BDOUT5	O	UO1	PDVN	55	46	VDD (+5V)	P	VDD1	
14	9	BDOUT6	O	UO1	PDVN	56	47	ETCLK	O	UO3	PDVN
15	10	BDOUT7	O	UO1	PDVN	57	48	VSS (GND)	P	VSS1	
16	11	GDOUT0	O	UO1	PDVN	58	49	DLRDR	O	UO2	PDVN
17	12	GDOUT1	O	UO1	PDVN	59	50	PLLHD2	O	UO1	PDVN
18	13	GDOUT2	O	UO1	PDVN	60	51	NVDOUT	O	UO2	PDVN
19	14	VSS (GND)	P	VSS1		61	52	NPDO2	O	UO1	PDV2B
20	15	VDD (+5V)	P	VDD1		62	53	VSS (GND)	P	VSS1	
21	16	GDOUT3	O	UO1	PDVN	63	54	NVCOOU	O	LOT	
22	17	GDOUT4	O	UO1	PDVN	64	55	NVCOIN	I	LIN	IN2
23	18	GDOUT5	O	UO1	PDVN	65	56	VDD (+5V)	P	VDD	
24	19	GDOUT6	O	UO1	PDVN	66	**	* *	*	**	
25	20	GDOUT7	O	UO1	PDVN	67	**	* *	*	**	
26	21	RDOUT0	O	UO1	PDVN	68	**	* *	*	**	
27	22	RDOUT1	O	UO1	PDVN	69	**	* *	*	**	
28	23	RDOUT2	O	UO1	PDVN	70	57	NHDEN	I	IBC	
29	24	RDOUT3	O	UO1	PDVN	71	58	PVDIN	I	IBC	
30	25	RDOUT4	O	UO1	PDVN	72	59	PHDIN	I	IBC	
31	26	RDOUT5	O	UO1	PDVN	73	60	RNIN0	I	IBC	
32	27	RDOUT6	O	UO1	PDVN	74	61	RNIN1	I	IBC	
33	28	RDOUT7	O	UO1	PDVN	75	62	RNIN2	I	IBC	
34	**	* *	*	**		76	63	RNIN3	I	IBC	
35	**	* *	*	**		77	64	RNIN4	I	IBC	
36	**	* *	*	**		78	65	RNIN5	I	IBC	
37	**	* *	*	**		79	66	RNIN6	I	IBC	
38	29	VSS (GND)	P	VSS		80	67	RNIN7	I	IBC	
39	30	PVCOIN	I	LIN	IN2	81	68	RDLIN0	I	IBC	
40	31	PVCOOU	O	LOT		82	69	RDLIN1	I	IBC	
41	32	VDD (+5V)	P	VDD1		83	70	RDLIN2	I	IBC	
42	33	NPDO1	O	UO1	PDV2B	84	71	RDLIN3	I	IBC	

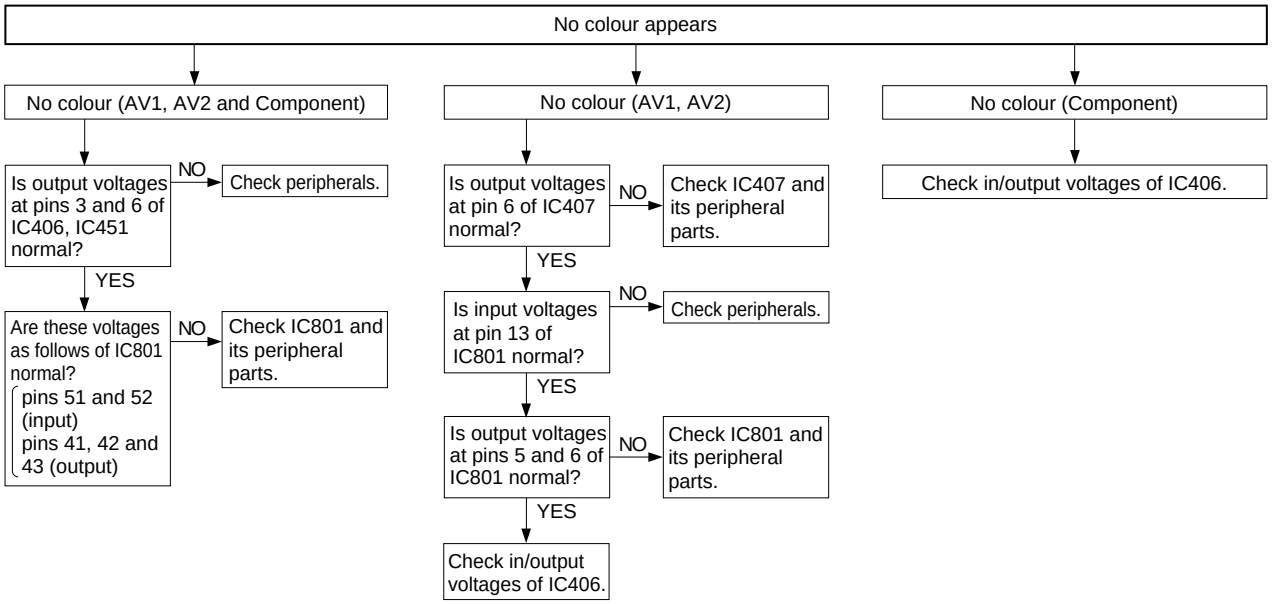
Pin No.	PAD	Pin Name	I/O TYPE	I/O CELL	I/F CELL	Pin No.	PAD	Pin Name	I/O TYPE	I/O CELL	I/F CELL
85	72	RDLIN4	I	IBC		107	90	GDLIN4	I	IBC	
86	73	RDLIN5	I	IBC		108	91	GDLIN5	I	IBC	
87	74	RDLIN6	I	IBC		109	92	GDLIN6	I	IBC	
88	75	RDLIN7	I	IBC		110	93	GDLIN7	I	IBC	
89	76	ETWEN	O	UO2	PDVN	111	94	NCLKIN	I	IBC	
90	77	GNIN0	I	IBC		112	95	BNIN0	I	IBC	
91	78	GNIN1	I	IBC		113	96	BNIN1	I	IBC	
92	79	GNIN2	I	IBC		114	97	BNIN2	I	IBC	
93	80	GNIN3	I	IBC		115	98	BNIN3	I	IBC	
94	81	GNIN4	I	IBC		116	99	BNIN4	I	IBC	
95	82	GNIN5	I	IBC		117	100	BNIN5	I	IBC	
96	83	GNIN6	I	IBC		118	101	BNIN6	I	IBC	
97	84	GNIN7	I	IBC		119	102	BNIN7	I	IBC	
98	**	* *	*	**		120	103	BDLIN0	I	IBC	
99	**	* *	*	**		121	104	BDLIN1	I	IBC	
100	**	* *	*	**		122	105	BDLIN2	I	IBC	
101	**	* *	*	**		123	106	BDLIN3	I	IBC	
102	85	VSS (GND)	P	VSS		124	107	BDLIN4	I	IBC	
103	86	GDLIN0	I	IBC		125	108	BDLIN5	I	IBC	
104	87	GDLIN1	I	IBC		126	109	BDLIN6	I	IBC	
105	88	GDLIN2	I	IBC		127	110	BDLIN7	I	IBC	
106	89	GDLIN3	I	IBC		128	111	NTEST	I	IBC	

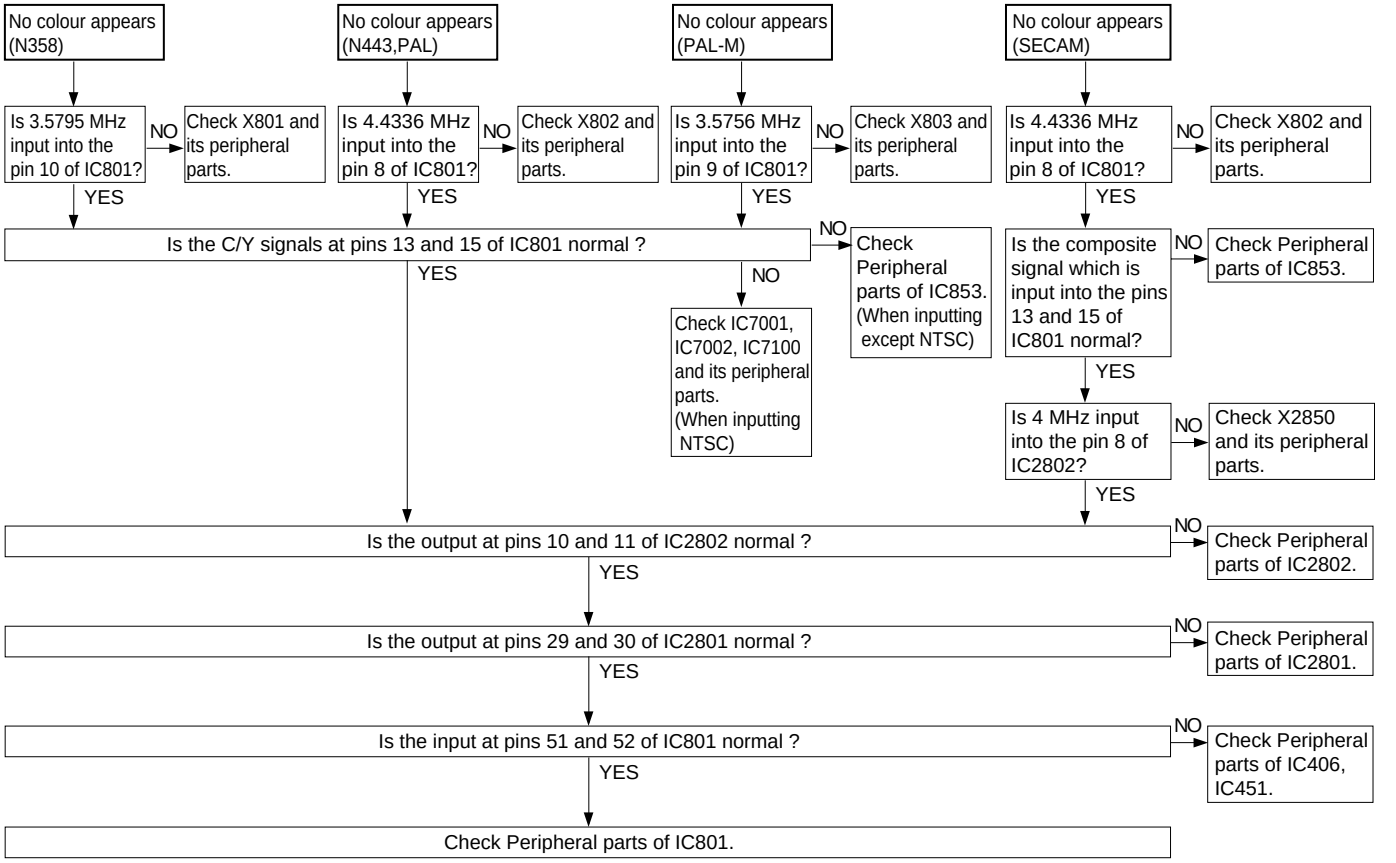
8. TROUBLE SHOOTING

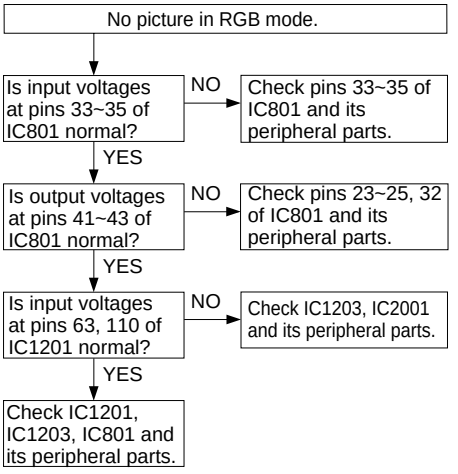

No picture, No sound
Do F702 and F703 function?
NO
YES
Are T701's secondary outputs, +30V, +9V, +5.0V and -8V normal?
NO
Is T701's primary oscillator waveform normal?
NO
YES
Check T701's secondary load.
Check IC702, Q702, L701 and their peripheral parts.
Remove F702 and F703, and check the load side. Is there short-circuiting?
NO
YES
Is there short-circuiting of T701 primary side periphery, Q704 and S4701?
YES
Replace F702 and F703.
Fluorecent lamp failure to light up.
Does F7751 function?
NO
Replace F7751.
YES
Is the pin 11 of IC1201 in the "H" state?
NO
Check IC1201, IC1206, IC2001 and their peripheral parts.
YES
Is primary oscillator waveform of T7751~T7756 normal ?
NO
Check Q7751~Q7755, T7751~T7756 and their peripheral parts.
YES
Replace the fluorecent lamp with new one and check again.


No picture
No picture (AV1, AV2 and Component)
Is output voltages at pins 3, 5 and 6 of IC406 normal?
NO
Check IC406 and its peripheral parts.
YES
Is input voltages at pins 51, 52 and 53 of IC801 normal?
NO
Check peripheral parts.
YES
Is output voltages at pins 41, 42 and 43 of IC801 normal?
NO
Check IC801 and its peripheral parts.
YES
Is output voltages at pins 1 of IC315 and 1, 7 of IC316 normal?
NO
Check IC315, IC316 and its peripheral parts.
YES
Is in/output voltages of IC1001 normal?
YES
Is in/output voltages of IC1201 normal?
YES
No picture (AV1, AV2)
Is in/output voltages of IC401 normal?
NO
Check IC401 and its peripheral parts.
YES
Is output voltages at pins 83 and 84 of IC7001 normal? (When inputting NTSC)
NO
Check IC7001, IC7002 and their peripheral parts.
YES
Is output voltages at pins 23 and 25 of IC853 normal? (When inputting except NTSC)
NO
Check IC853, Q852, Q854, Q857 and their peripheral parts.
YES
Are output voltages at pin 6 of IC402 and it of IC407 normal?
NO
Check IC402, IC407 and their peripheral parts.
YES
Is input voltages at pins 13 and 15 of IC801 normal?
NO
Check Q802, Q803, Q805, Q806 and their peripheral parts.
YES
Is output voltages at pins 4, 5 and 6 of IC801 normal?
NO
Check IC801 and its peripheral parts.
YES
Check in/output voltages of IC406, IC451 and its peripheral parts.
No picture apears (AV1)
Check Q407~Q410 and their peripheral parts.
No picture (AV1/AV2)
No picture (Component)
Is signal input into the pin 13 of IC2001?
NO
YES
YES
Check IC401 and its peripheral parts.
Check the in/output of IC406, IC451 and its peripheral parts.
Is output voltage at pin 18 of IC801 normal?
NO
Is input voltages at pins 33 and 15 of IC801 normal?
NO
Check IC406, IC402 and their peripheral parts.
Are voltages and waveform of the LCD module connecting connector normal?
YES
Aren't cables break down?
NO
Replace cables with new one and check again.
YES
Replace LCD module with new one and check again.


No sound
Does not output from the front
YES
Is the pin 9 of IC2001 in the "L" state?
NO
Muted. Check the FSMUT line.
YES
Is output at pins 1 and 7 of IC316 normal?
NO
Check IC308, IC316 and their peripherals.
YES
Is output at pins 10 and 17 of IC305 normal?
YES
Check speaker unit and its peripheral parts.
NO
Does not output from the rear
YES
Is the pin 10 of IC2001 in the "L" state?
NO
Muted. Check the RSMUT line.
YES
Is output at pin 7 of IC304 normal?
NO
Check IC308, IC304 and their peripherals.
YES
Is output at pin 14 of IC305 normal?
YES
NO
Is 13V applied to the pin 9 of IC305?
NO
Check Q308, F703 and their peripherals.
YES
Check IC305 their peripherals.
Does not output from the headphones
YES
Is the pin 5 of IC2001 in the "L" state?
NO
Check Q305, J4001 and their peripherals.
YES
Is output at pins 1 and 7 of IC317 normal?
NO
Check IC317 and their peripherals.
Does not output from the line output
YES
Is the pin 24 of IC2001 in the "L" state?
NO
Check the LSMUT line.
YES
Is output at pins 1 and 7 of IC314 normal?
NO
Check IC313, IC314 and their peripherals.

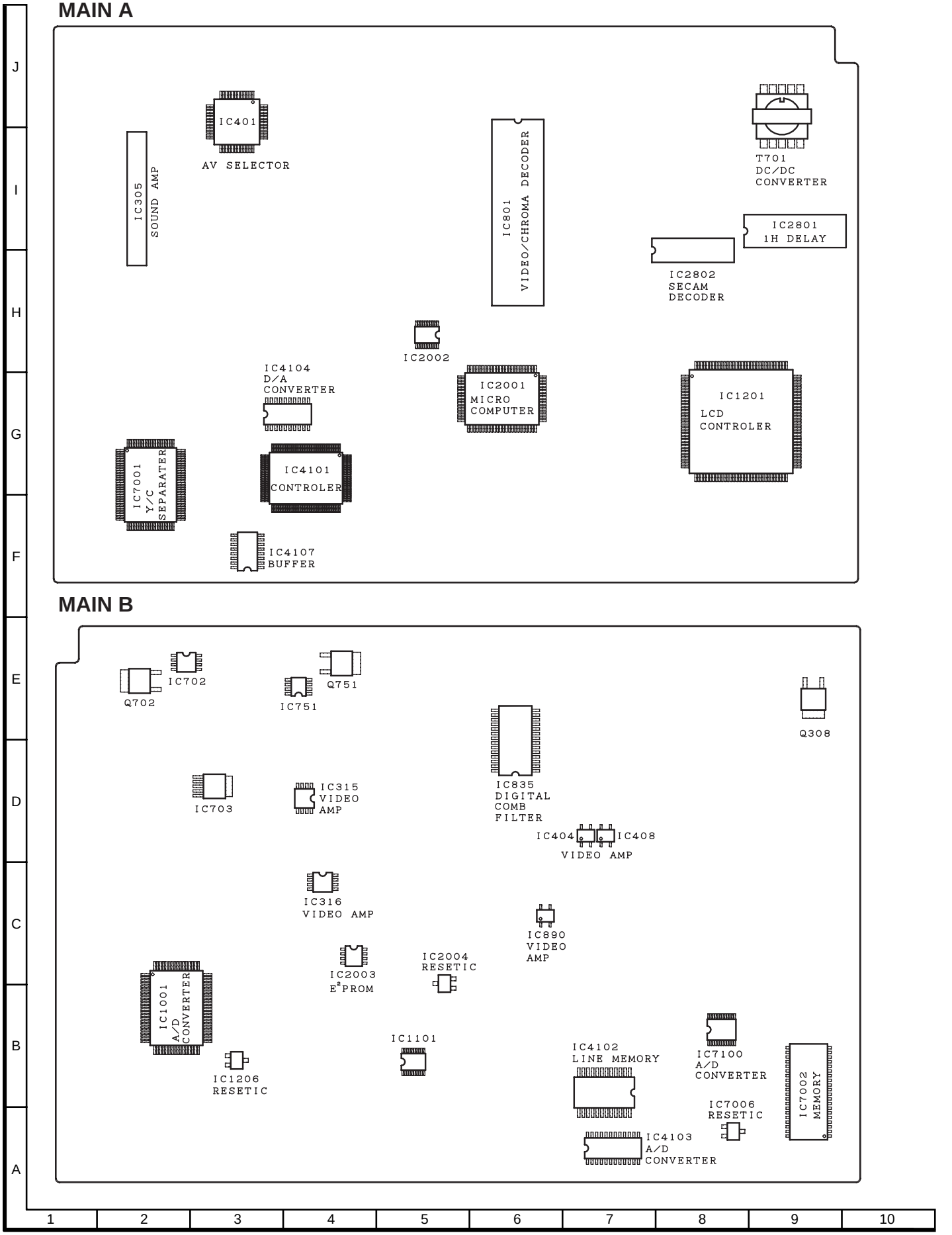

No colour appears
No colour (AV1, AV2 and Component)
Is output voltages at pins 3 and 6 of IC406, IC451 normal?
NO
Check peripherals.
YES
Are these voltages as follows of IC801 normal?
pins 51 and 52 (input)
pins 41, 42 and 43 (output)
NO
Check IC801 and its peripheral parts.
No colour (AV1, AV2)
Is output voltages at pin 6 of IC407 normal?
NO
Check IC407 and its peripheral parts.
YES
Is input voltages at pin 13 of IC801 normal?
NO
Check peripherals.
YES
Is output voltages at pins 5 and 6 of IC801 normal?
NO
Check IC801 and its peripheral parts.
YES
Check in/output voltages of IC406.
No colour (Component)
Check in/output voltages of IC406.


No colour appears (N358)
No colour appears (N443,PAL)
No colour appears (PAL-M)
No colour appears (SECAM)
Is 3.5795 MHz input into the pin 10 of IC801?
NO
Check X801 and its peripheral parts.
YES
Is 4.4336 MHz input into the pin 8 of IC801?
NO
Check X802 and its peripheral parts.
YES
Is 3.5756 MHz input into the pin 9 of IC801?
NO
Check X803 and its peripheral parts.
YES
Is 4.4336 MHz input into the pin 8 of IC801?
NO
Check X802 and its peripheral parts.
YES
Is the C/Y signals at pins 13 and 15 of IC801 normal ?
NO
Check Peripheral parts of IC853. (When inputting except NTSC)
YES
NO
Check IC7001, IC7002, IC7100 and its peripheral parts. (When inputting NTSC)
Is the composite signal which is input into the pins 13 and 15 of IC801 normal?
NO
Check Peripheral parts of IC853.
YES
Is 4 MHz input into the pin 8 of IC2802?
NO
Check X2850 and its peripheral parts.
YES
Is the output at pins 10 and 11 of IC2802 normal ?
NO
Check Peripheral parts of IC2802.
YES
Is the output at pins 29 and 30 of IC2801 normal ?
NO
Check Peripheral parts of IC2801.
YES
Is the input at pins 51 and 52 of IC801 normal ?
NO
Check Peripheral parts of IC406, IC451.
YES
Check Peripheral parts of IC801.

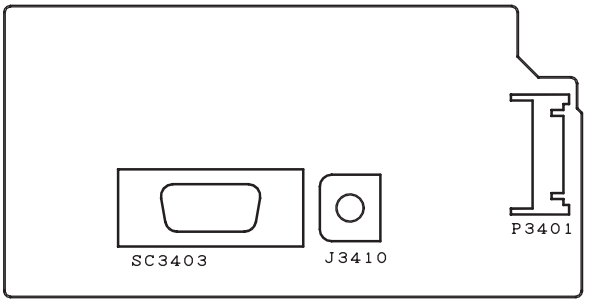

No picture in RGB mode.
Is input voltages at pins 33~35 of IC801 normal?
NO
Check pins 33~35 of IC801 and its peripheral parts.
YES
Is output voltages at pins 41~43 of IC801 normal?
NO
Check pins 23~25, 32 of IC801 and its peripheral parts.
YES
Is input voltages at pins 63, 110 of IC1201 normal?
NO
Check IC1203, IC2001 and its peripheral parts.
YES
Check IC1201, IC1203, IC801 and its peripheral parts.

9. CHASSIS LAYOUT

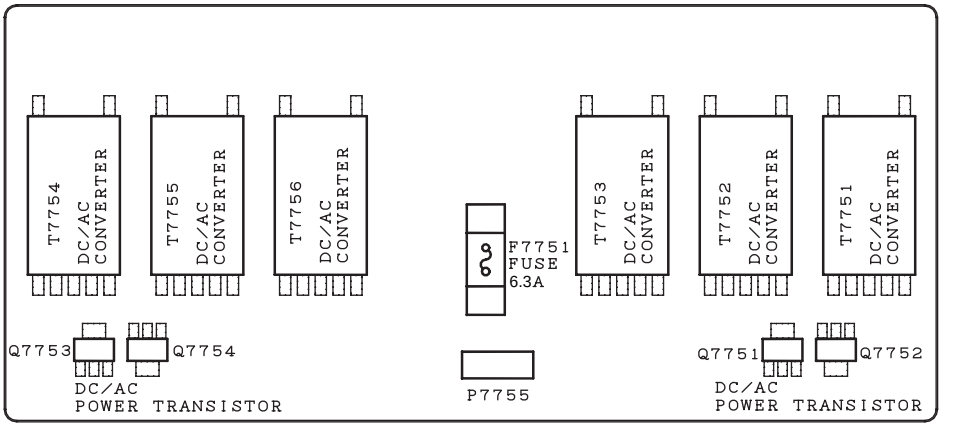
MAIN A



RGB UNIT

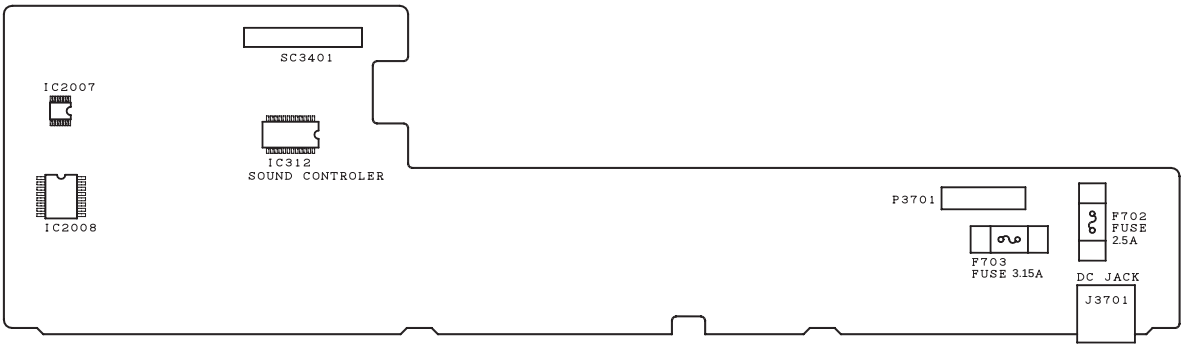


INVERTER UNIT

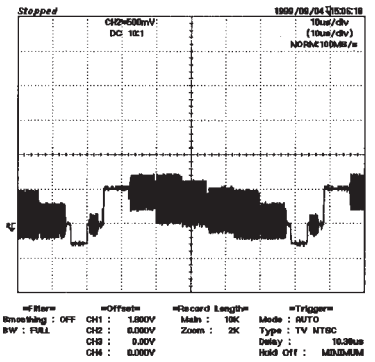


SW UNIT

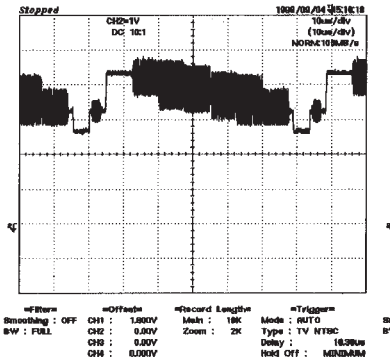
TERMINAL UNIT



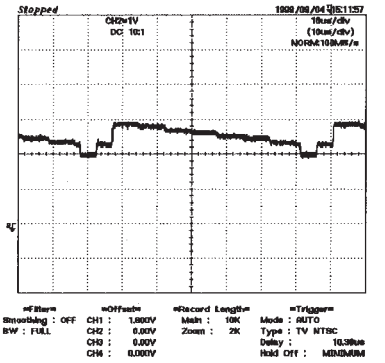
• WAVEFORMS



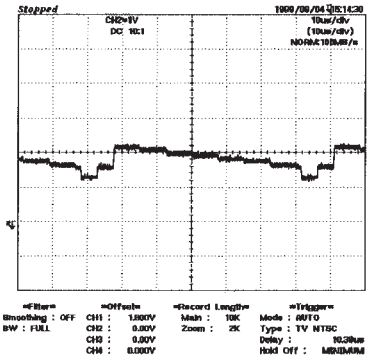
① 500mV/div 10µs/div



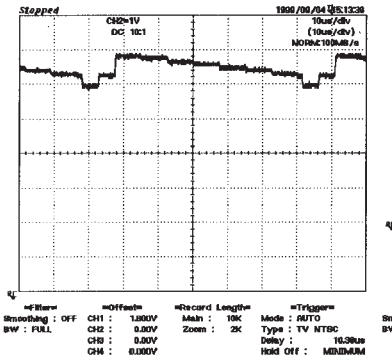
② 1V/div 10µs/div



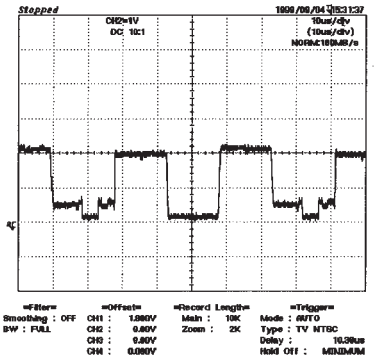
③ 1V/div 10µs/div



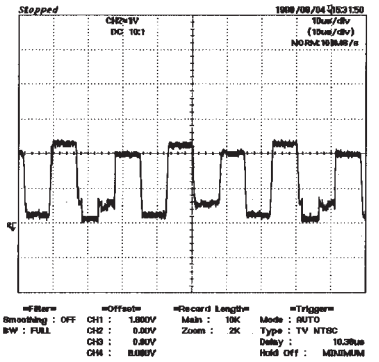
④ 1V/div 10µs/div



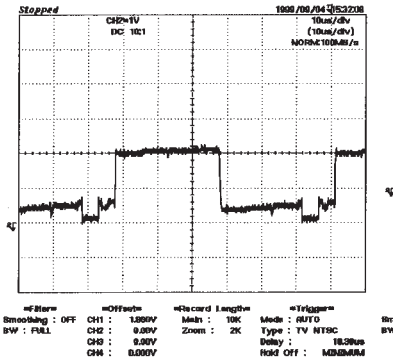
⑤ 1V/div 10µs/div



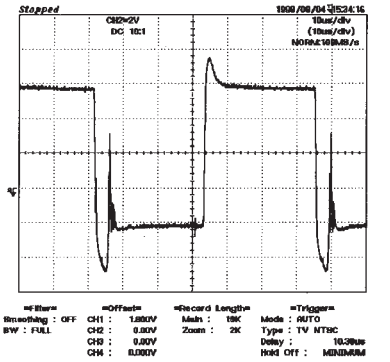
⑥ 1V/div 10µs/div



⑦ 500mV/div 10µs/div



⑧ 1V/div 10µs/div



⑨ 2V/div 10µs/div

• DESCRIPTION OF SCHEMATIC DIAGRAM

1. When the exclusive-use AC adapter is used, the color bar signal of color bar generator for service is input to get the normal screen. When the audio is minimized, the voltage value is measured with the 20 kΩ/V tester.

2. When the exclusive-use AC adapter is used, the color density, lightness and color hue are set to the center position, and the signal of colour bar generator for service is observed to get waveform.
The waveform test point is indicated with the mark (Q) in the wiring diagram.

3. Indication of resistors and capacitors

[Resistor]

Unit: Nonindication ···Ω, K ··· kΩ,
M ··· MΩ
Error: Nonindication ···±10%
J ···±5%
F ···±1%
D ···±0.5%

[Capacitor]

Unit: Nonindication or μ ···μF,
P or p ··· pF

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH " ⚠ " (▭) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET.
BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

AVIS DE SECURITE IMPORTANT:

LES PIECES MARQUEES " ⚠ " (▭) SONT IMPORTANTES POUR MAINTENIR LA SECURITE DE L'APPAREIL.
NE REMPLACER CES PIECES QUE PAR DES PIECES DONT LE NUMERO EST SPECIFIE POUR MAINTENIR LA SECURITE ET PROTEGER LE BON FONCTIONNEMENT DE L'APPAREIL.

CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

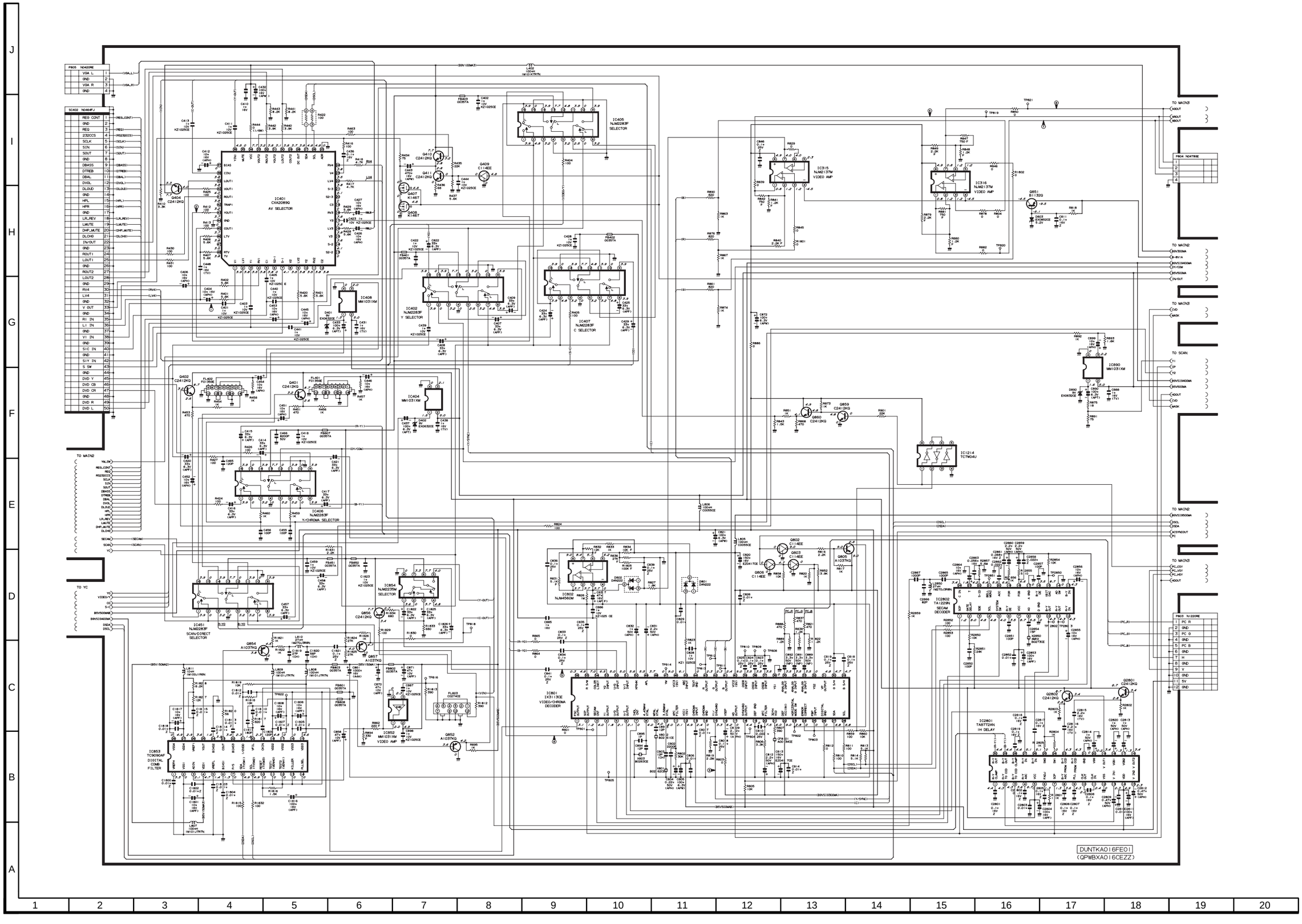
[Item]

Resistor		Capacitor	
Nonindication	Carbon-film resistor	Nonindication	Ceramic capacitor
Ⓒ	Solid resistor	ML	Mylar capacitor
Ⓢ	Metal-oxide-film resistor	PF	Polypropylene
Ⓝ	Metal-film resistor		film capacitor
Ⓦ	Cement resistor	TA	Tantalum capacitor
Ⓣ	Special resistor	ST	Styrol capacitor

- M E M O -

LC-20VM2

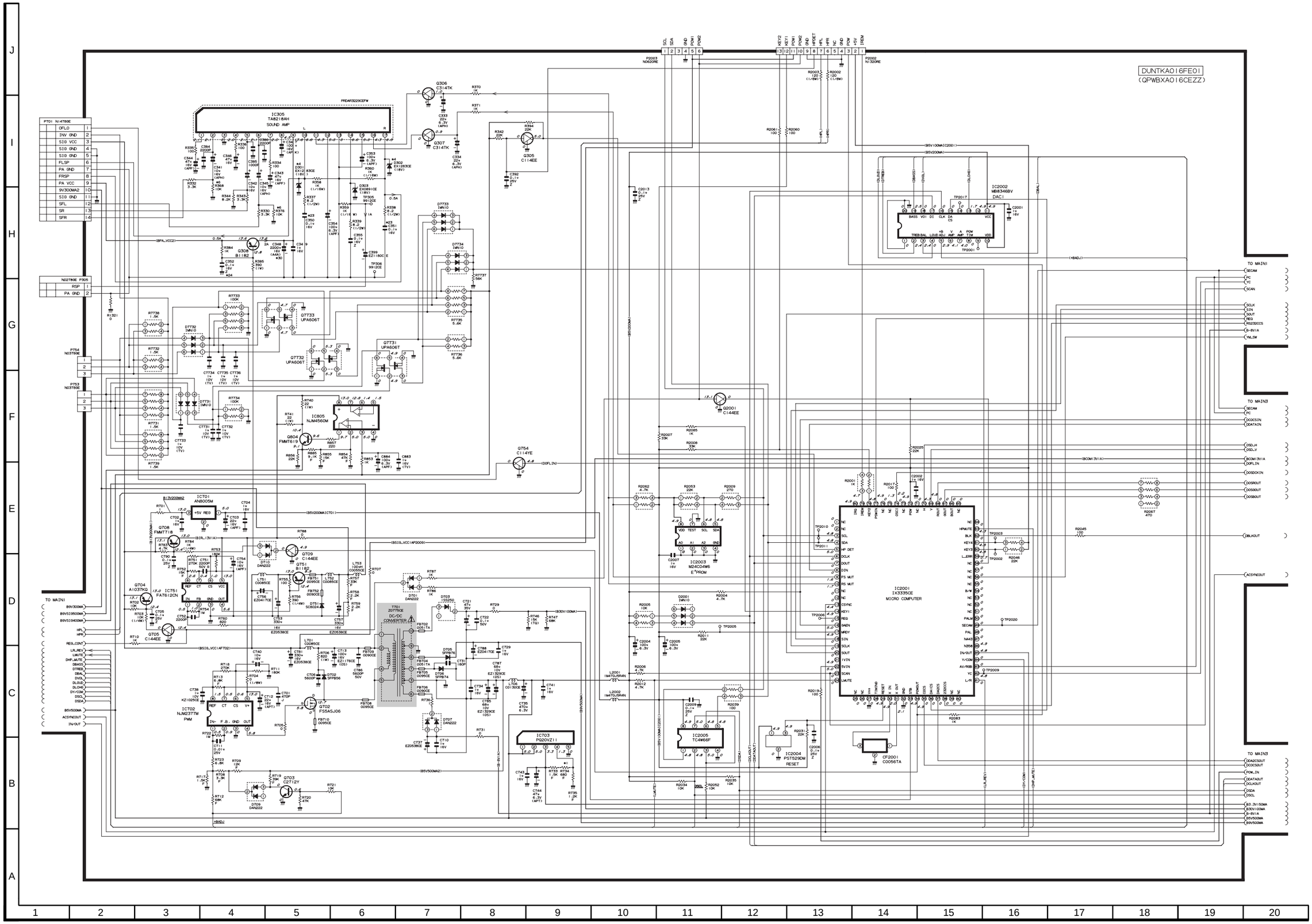
10. SCHEMATIC DIAGRAMS MAIN (1) CIRCUIT SCHEMATIC DIAGRAM



LC-20VM2

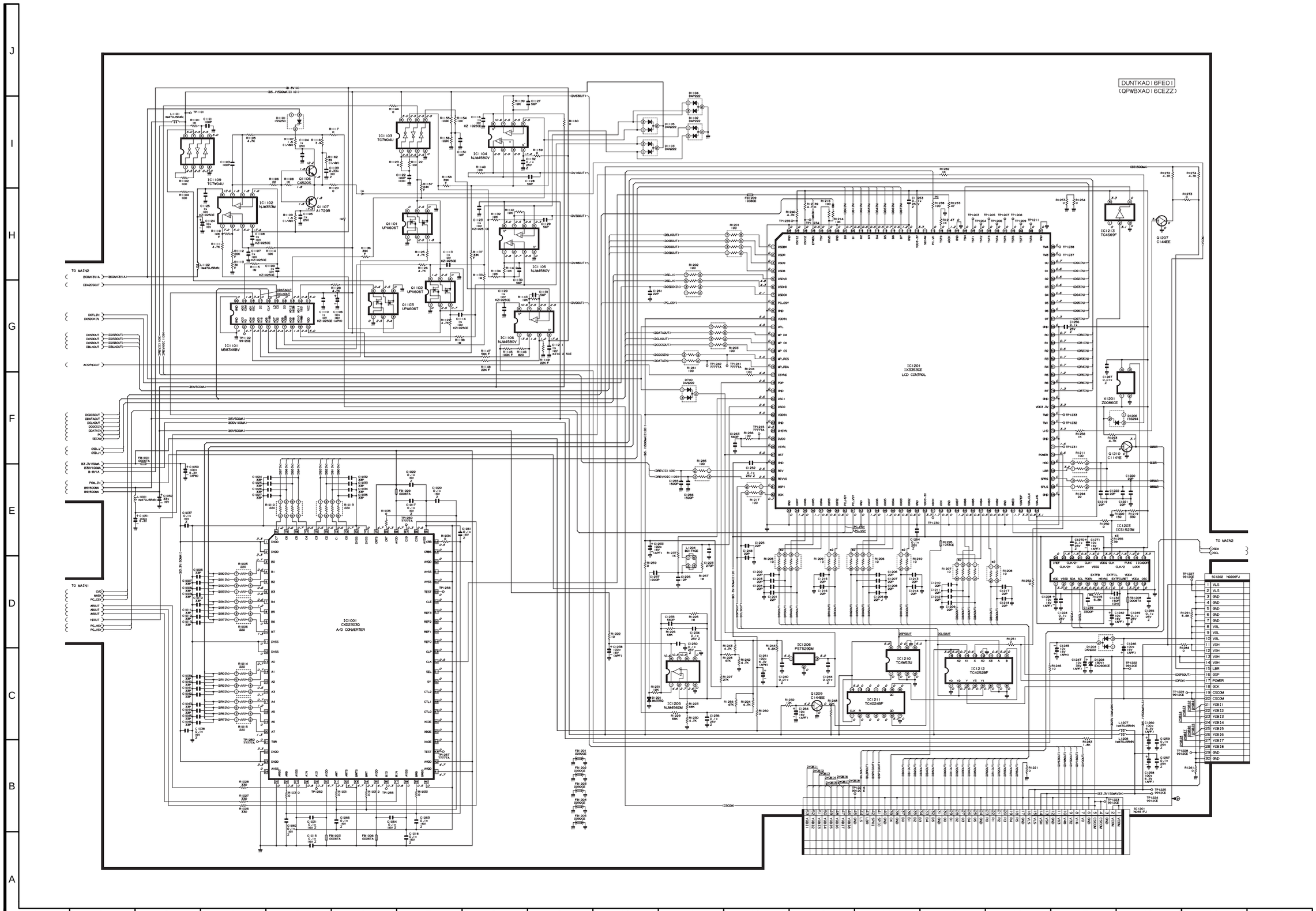
MAIN (2) CIRCUIT SCHEMATIC DIAGRAM

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



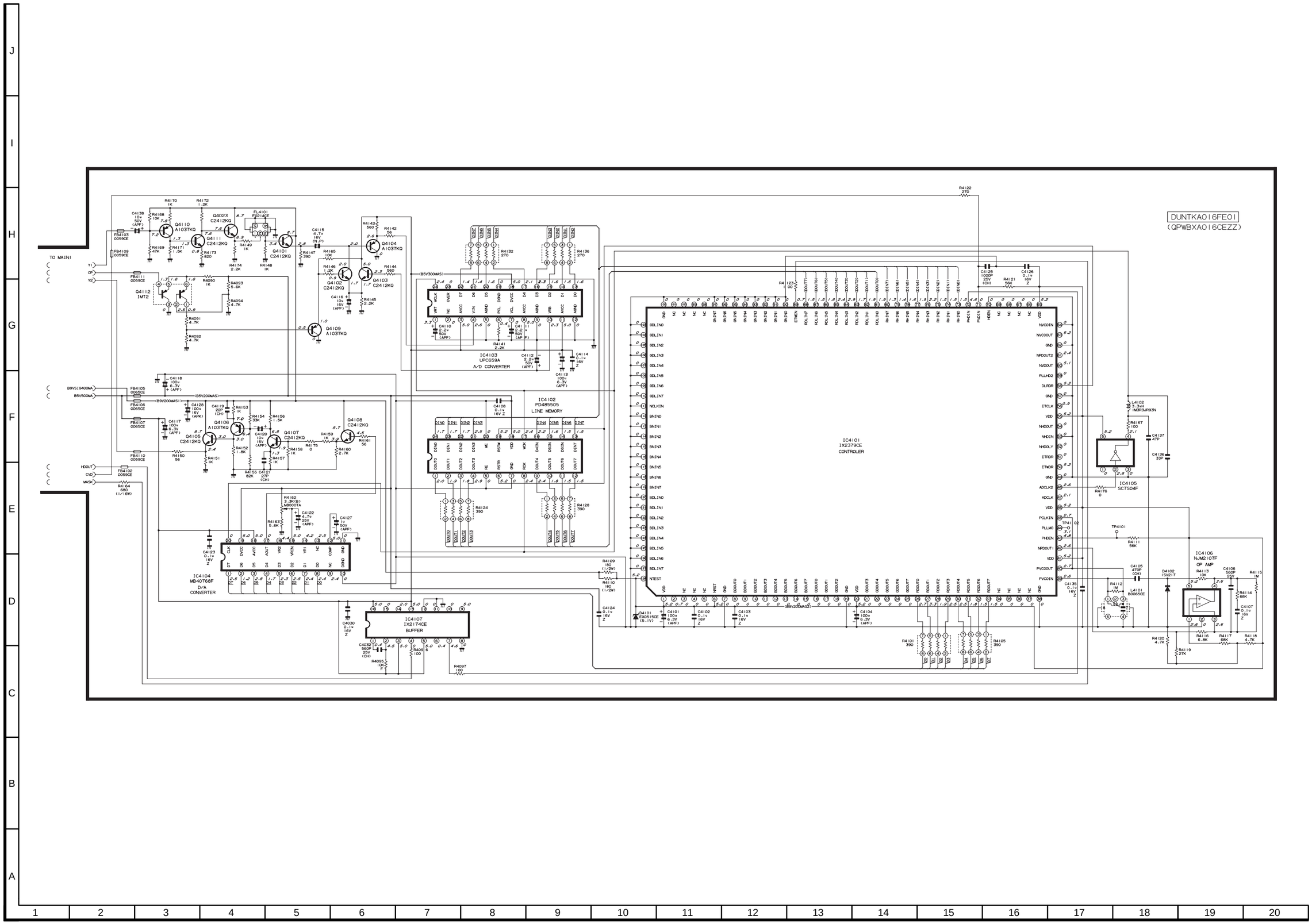
LC-20VM2

MAIN (3) CIRCUIT SCHEMATIC DIAGRAM



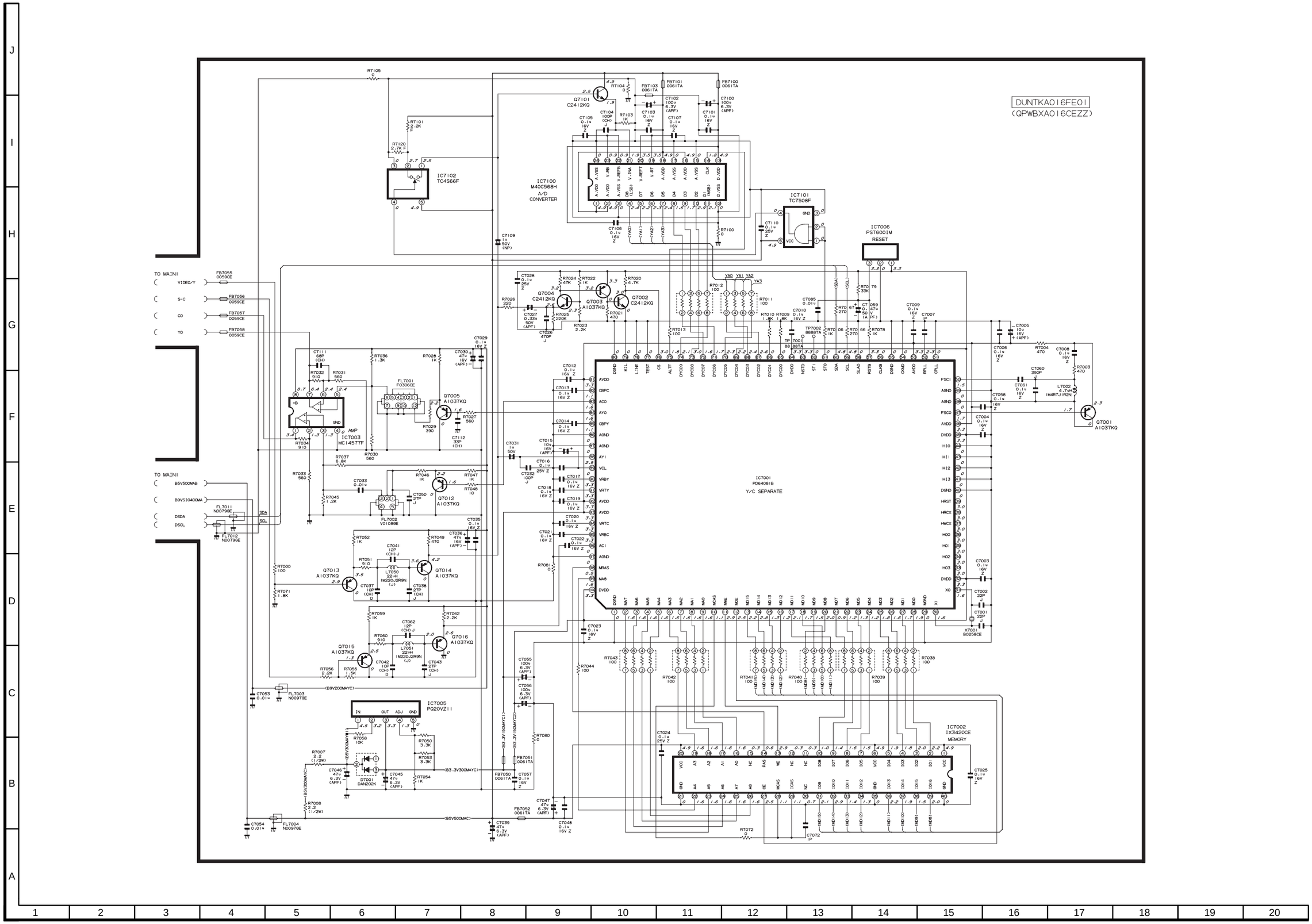
LC-20VM2

SCAN CIRCUIT SCHEMATIC DIAGRAM



LC-20VM2

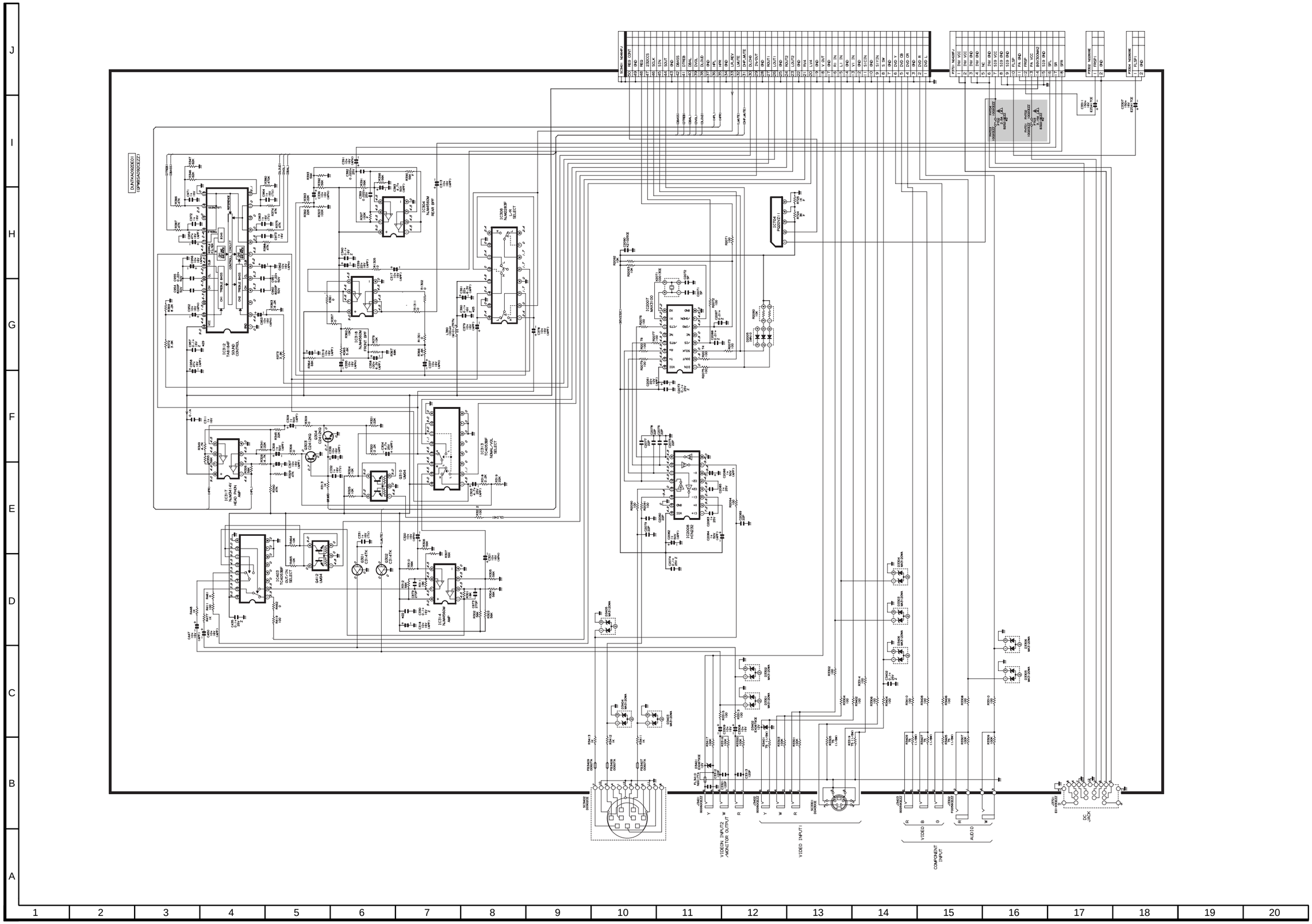
YC CIRCUIT SCHEMATIC DIAGRAM



LC-20VM2

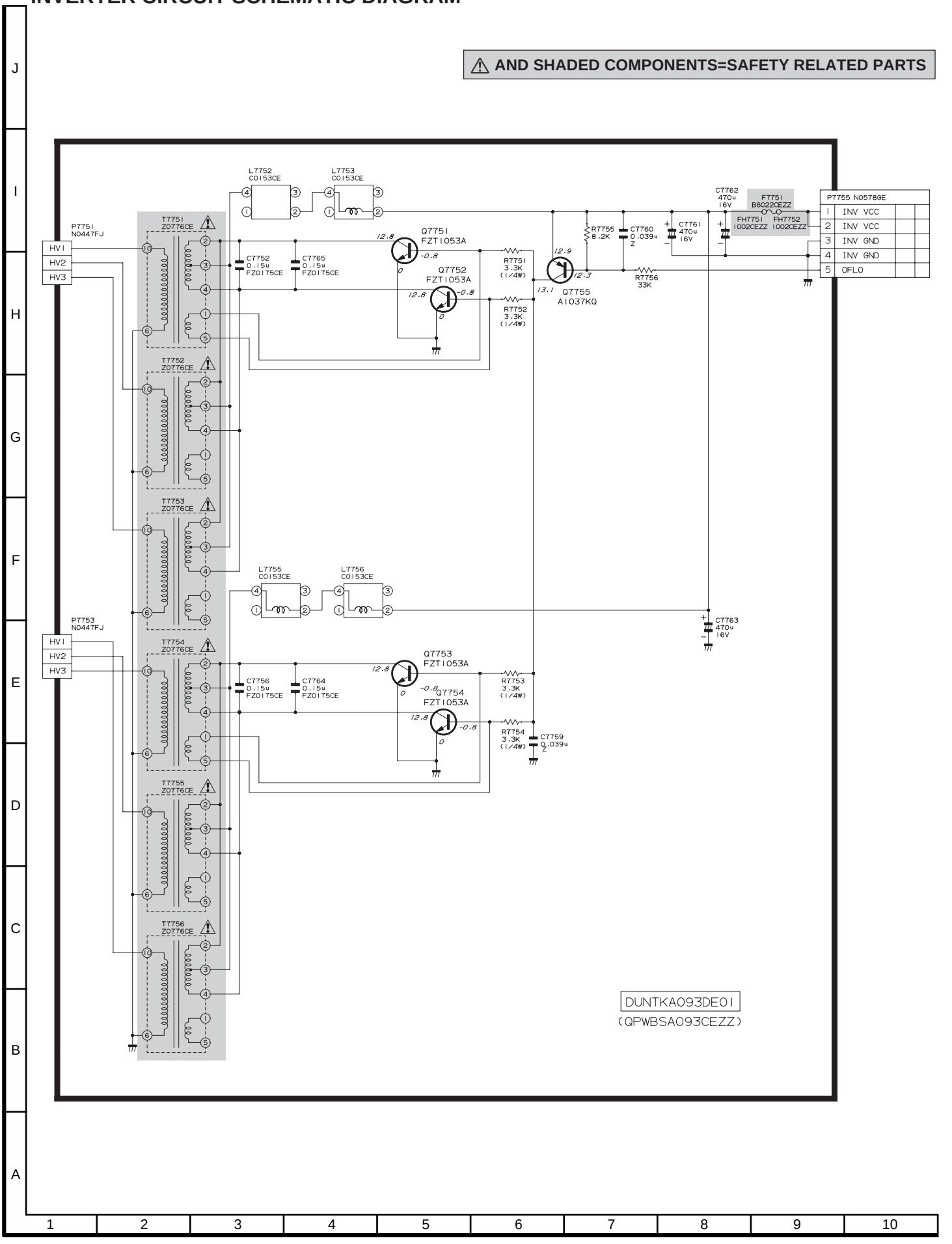
TERMINAL CIRCUIT SCHEMATIC DIAGRAM

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS

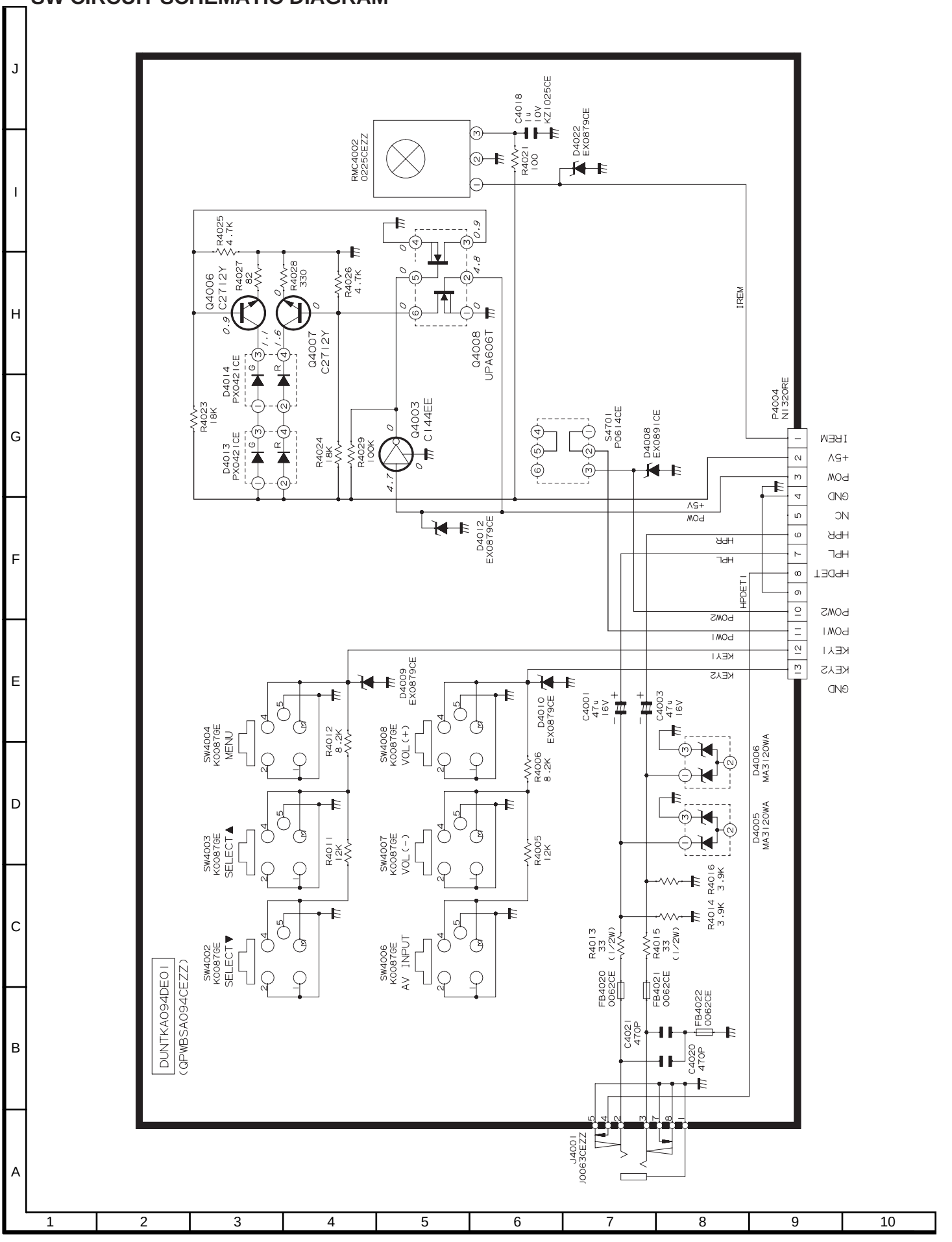


INVERTER CIRCUIT SCHEMATIC DIAGRAM

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS

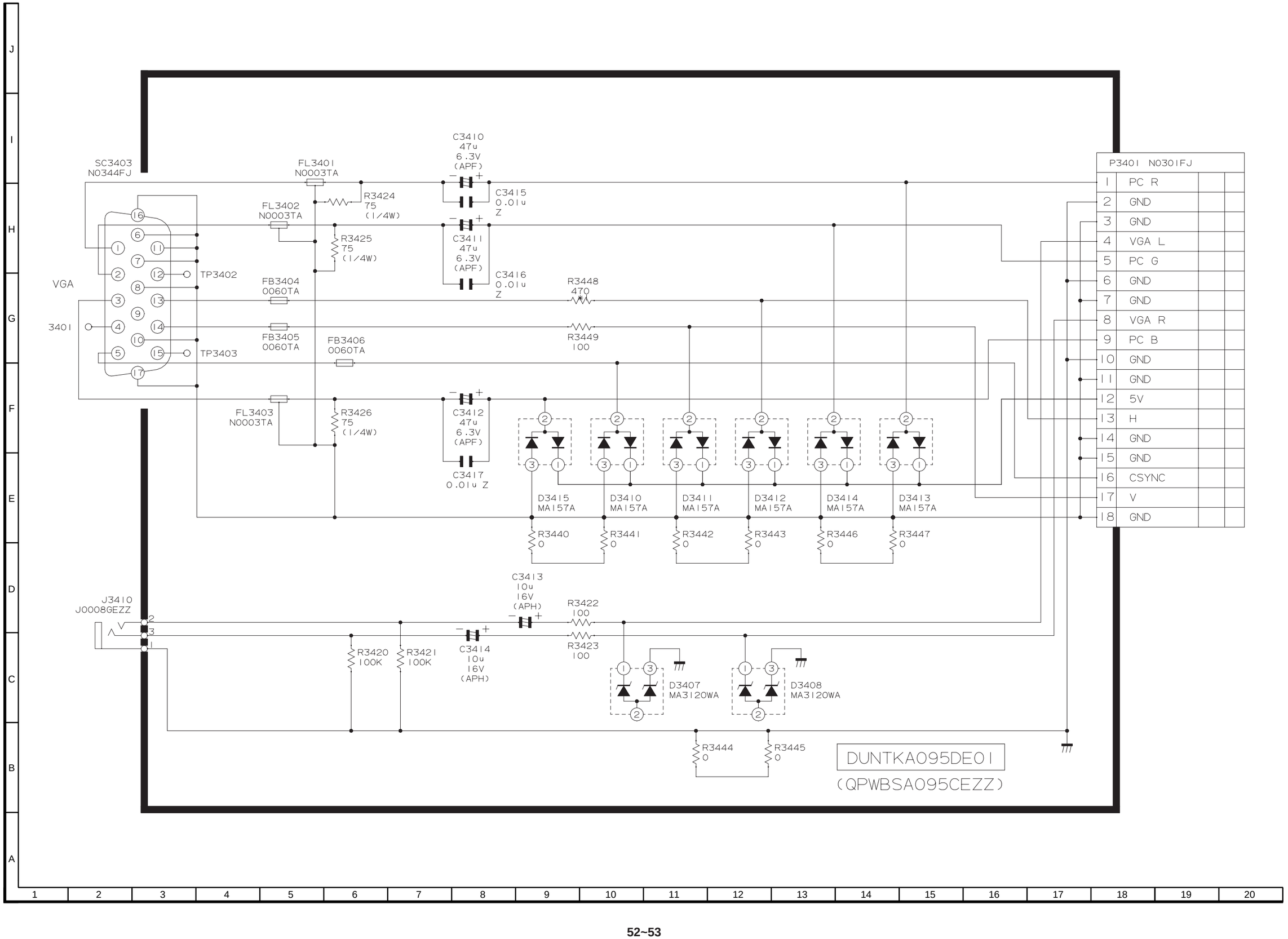


SW CIRCUIT SCHEMATIC DIAGRAM



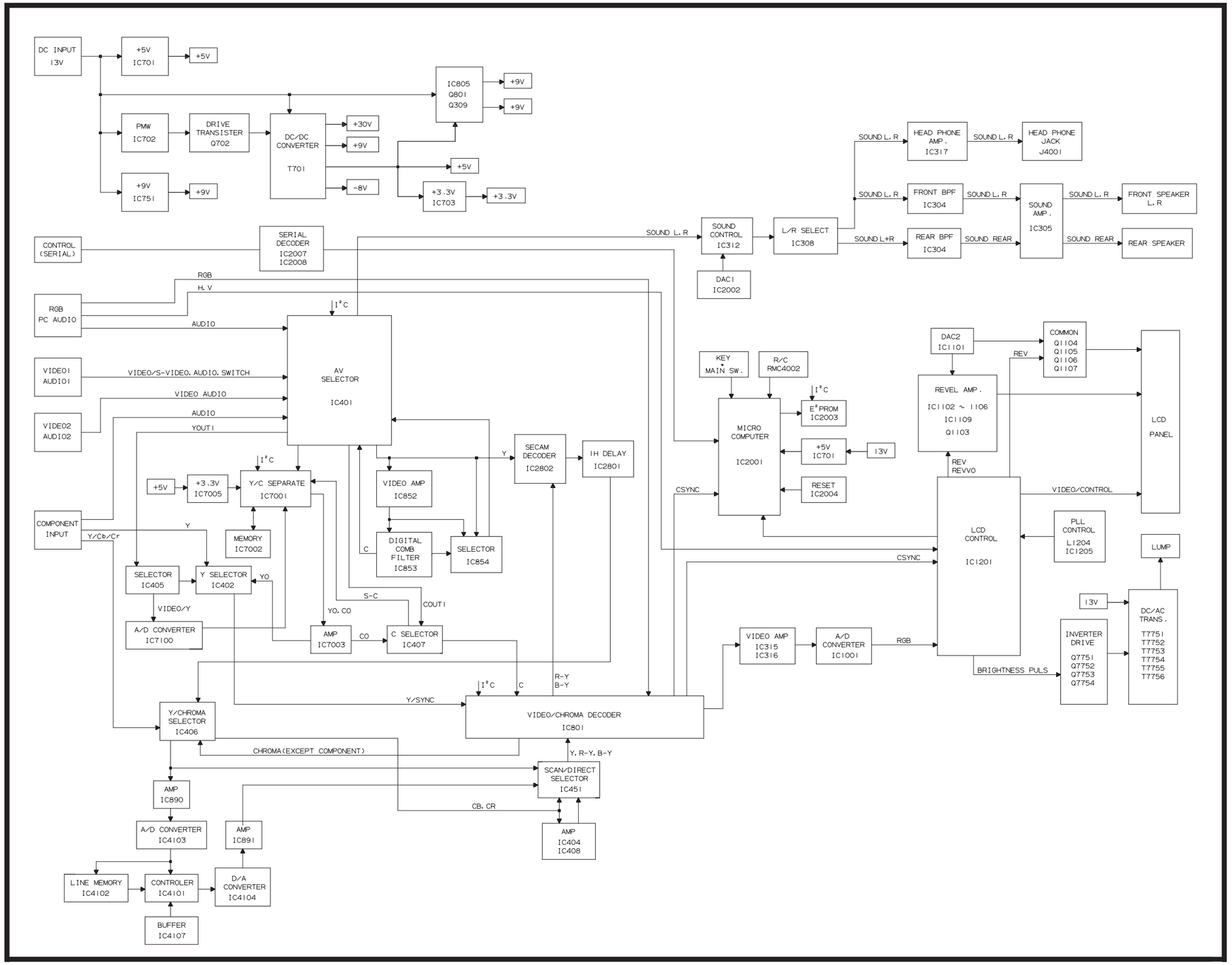
LC-20VM2

RGB CIRCUIT SCHEMATIC DIAGRAM



LC-20VM2

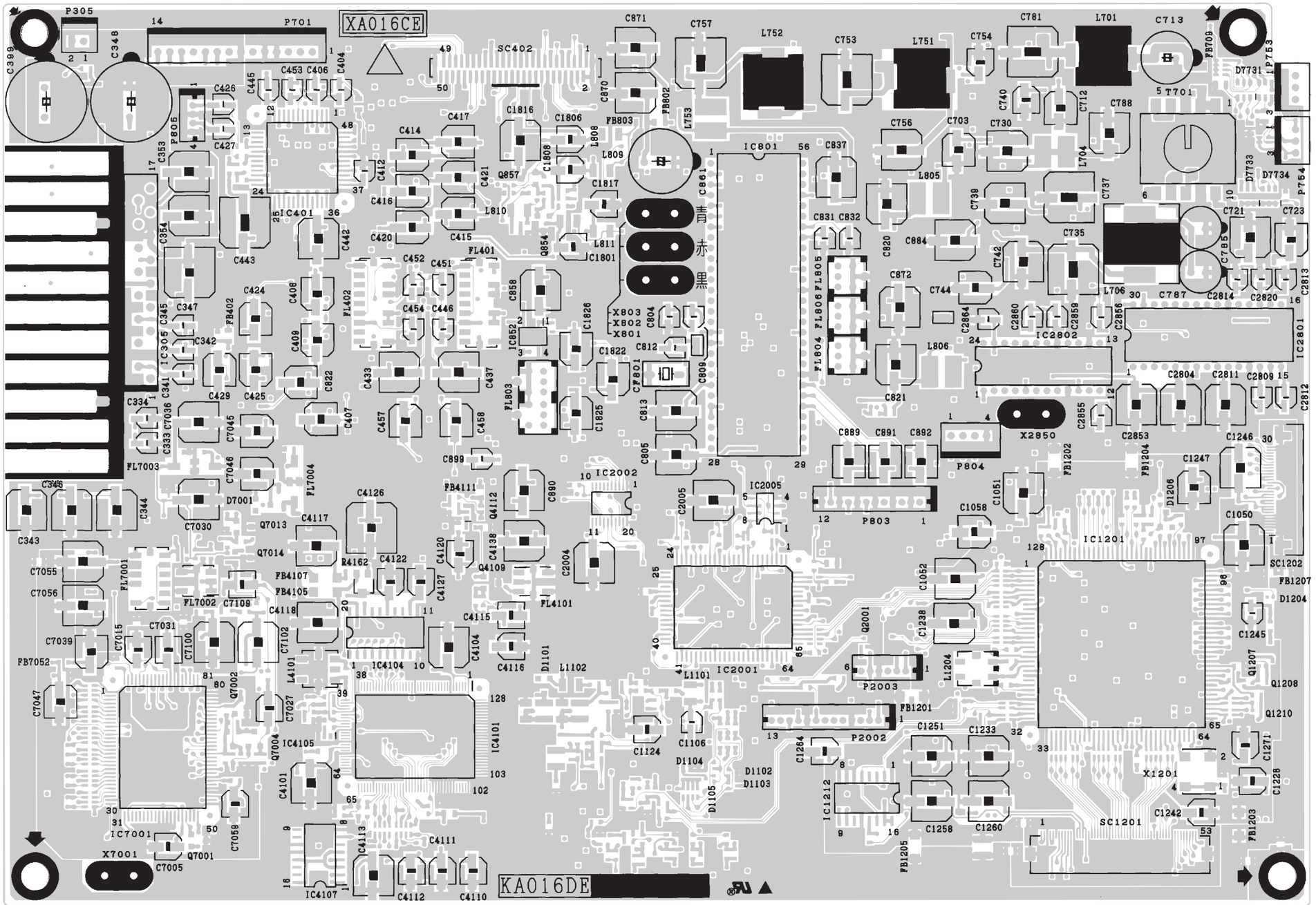
11. BLOCK DIAGRAM



LC-20VM2

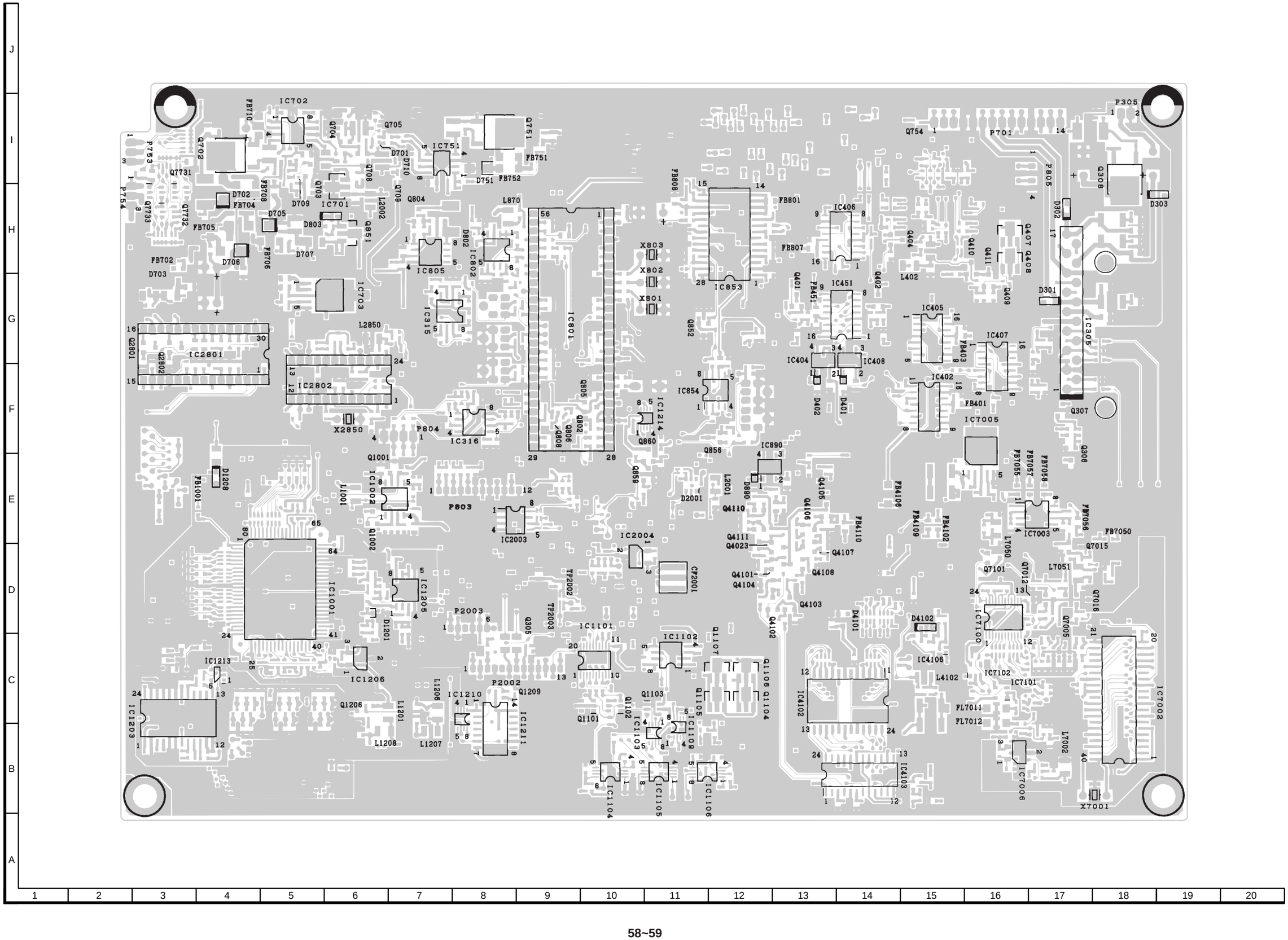
12. PRINTED WIRING BOARD ASSEMBLIES

MAIN PWB UNIT (Component Side)


XA016CE
KA016DE
青
赤
黒
P305
P701
SC402
IC801
IC2001
IC2002
IC2005
IC2802
IC1201
IC4104
IC4105
IC4107
IC7001
IC1212
IC1246
IC4101
IC1801
IC2801
IC1202
IC1204
IC1247
IC1251
IC1233
IC1258
IC1260
IC1271
IC1228
IC1242
IC1245
IC1207
IC1208
IC1210
IC1203
IC1205
IC1204
IC1206
IC1050
IC1051
IC1052
IC1058
IC1238
IC1264
IC1212

LC-20VM2

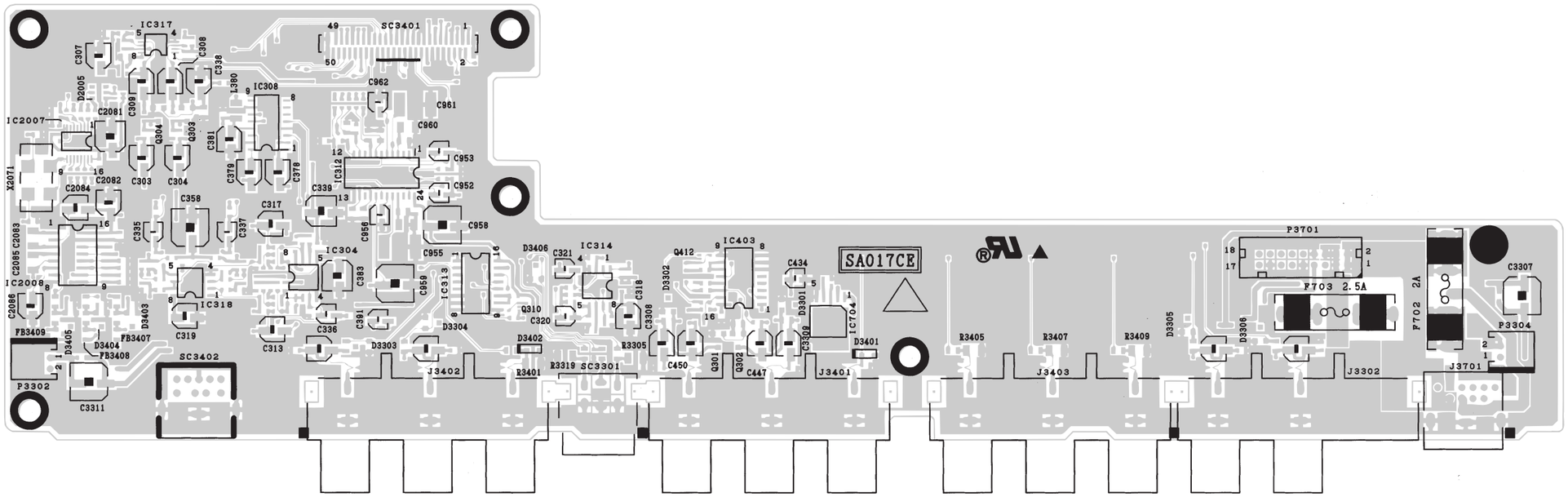
MAIN PWB UNIT (Wiring Side)



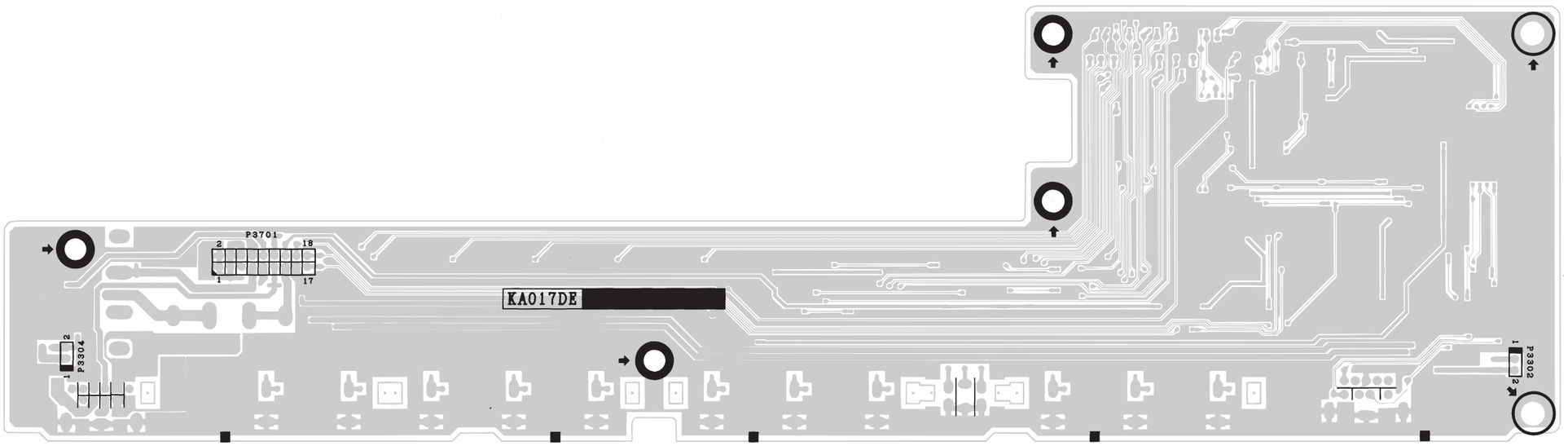
LC-20VM2

TERMINAL PWB UNIT

Component Side



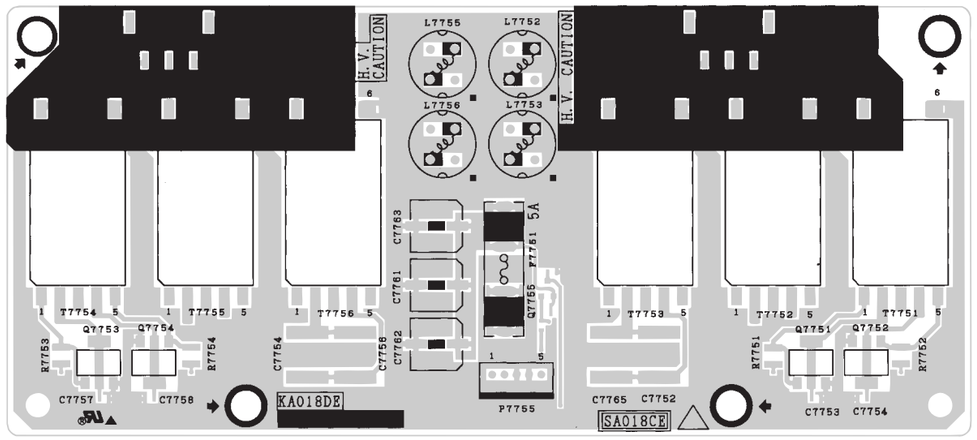
Wiring Side



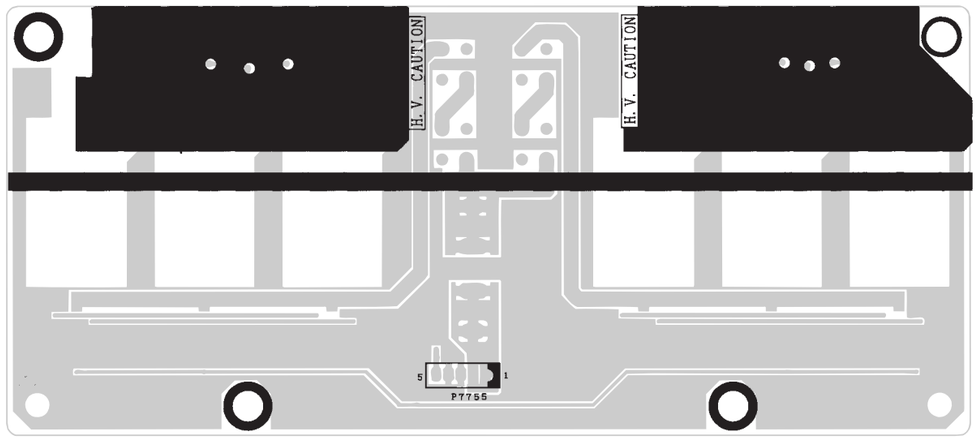
LC-20VM2

INVERTER/SW/RGB PWB UNIT

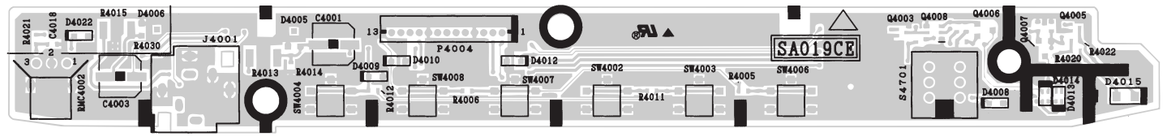
INVERTER PWB UNIT
Component Side



Wiring Side

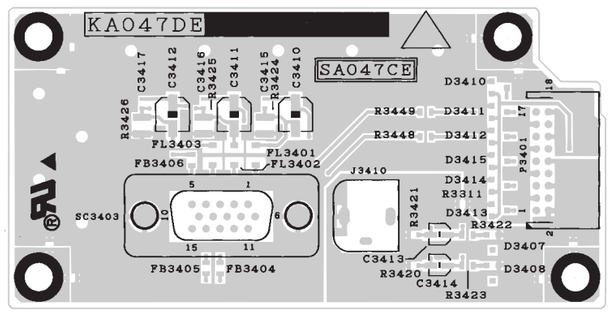


SW PWB UNIT
Component Side

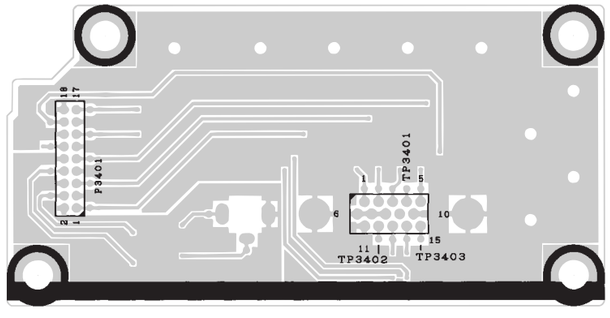


Wiring Side

RGB PWB UNIT
Component Side



Wiring Side



- M E M O -

13. PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" and shaded area in the Replacement Parts Lists and schematic diagrams.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

" HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER **2. REF. NO.**
3. PART NO. **4. DESCRIPTION**

in USA : Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free: 1-800-BE SHARP

MARK★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
LCD MODULE UNIT				
	RLCDT0053CEZZ	J	LCD Module Unit	
LAMP UNIT				
⚠	KLMP-0091CEZZ	J	Lamp Unit(Upper)	BB
⚠	KLMP-0092CEZZ	J	Lamp Unit(Lower)	BB
PRINTED WIRING BOARD ASSEMBLIES *(NOT REPLACEMENT ITEM)*				
	DUNTKA016FE01	-	Main PWB Unit	—
	DUNTKA092DE01	-	Terminal PWB Unit	—
	DUNTKA093DE01	-	Inverter PWB Unit	—
	DUNTKA094DE01	-	SW PWB Unit	—
	DUNTKA095DE01	-	RGB PWB Unit	—

13. LISTE DES PIECES

CHANGE DES PIECES

Les pi`eces de rechange qui pr élelesentent ces caract éleristiques sp éleciales de s élecurit éle, sont identifi élees dans ce manuel : les pi`eces élelectriques qui pr élesentent ces particularit éles, sont rep éle élee par la marque ⚠ et sont hachur élees dans les listes de pi`eces et dans les diagrammes sch élematiques.
La substitution d'une pi`ece de rechange par une autre qui ne pr é Lesente pas les m éoemes caract éLeristuques de s élecurit éle que la pi`ece recommand élee parl'usine et dans ce manuel de service, peut provoquer une élLelectrocution, un incendie ou toutautre sinistre.

" COMMENT COMMANDER LES PIECES DE RECHANGE"

Pour que votre commande soit rapidement et correctement remplie, veuillez fournir les renseignements suivants.

1. NUMERO DU MODELE **2. NO. DE REF**
3. NO. DE PIECE **4. DESCRIPTION**

in CANADA : Contact SHARP Electronics of Canada Limited Phone (416) 890-2100

MARK★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
DUNTKA016FE01 MAIN PWB UNIT				
INTEGRATED CIRCUITS				
IC305	VHiTA8218AH-1	J	TA8218AH, Sound Amp	AP
IC315	VHiNJM2137M-1	J	NJM2137M, Video Amp	AG
IC316	VHiNJM2137M-1	J	NJM2137M, Video Amp	AG
IC401	VHiCXA2089Q-1	J	CXA2089Q, AV Selector	AN
IC402	VHiNJM2283F-1	J	NJM2283F, Y Selector	AF
IC404	VHiMM1031XM-1	J	MM1031XM	AF
IC405	VHiNJM2283F-1	J	NJM2283F, Selector	AF
IC406	VHiNJM2283F-1	J	NJM2283F, Y/Chroma Selector	AF
IC407	VHiNJM2283F-1	J	NJM2283F, C Selector	AF
IC408	VHiMM1031XM-1	J	MM1031XM	AF
IC451	VHiNJM2283F-1	J	NJM2283F, Scan/Direct Selector	AF
IC701	VHiAN8005M/-1	J	AN8005M	AD
IC702	VHiNJM2377M-1	J	NJM2377M, PWM	AK
IC703	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC751	VHiFA7612CN-1	J	FA7612CN	AK
IC801	RH-iX3113CEZZ	J	IX3113CE, Video/Chroma Decoder	AZ
IC802	VHiNJM4560M-1	J	NJM4560M	AG
IC805	VHiNJM4560M-1	J	NJM4560M	AG
IC852	VHiMM1031XM-1	J	MM1031XM, Video Amp	AF
IC853	VHiTC9090AF-1	J	TC9090AF, Digital Comb Filter	AX
IC854	VHiNJM2235M-1	J	NJM2235M, Selector	AE
IC890	VHiMM1031XM-1	J	MM1031XM	AF
IC1001	VHiCXD2303Q-1	J	CXD2303Q, A/D Converter	BD
IC1101	VHiMB8346BV-1	J	MB8346BV	AN
IC1102	VHiNJM353M/-1	J	NJM353M	AG
IC1103	VHiTC7W04U/-1	J	TC7W04U	AD
IC1104	VHiNJM4580V-1	J	NJM4580V	AE
IC1105	VHiNJM4580V-1	J	NJM4580V	AE
IC1106	VHiNJM4580V-1	J	NJM4580V	AE
IC1109	VHiTC7W04U/-1	J	TC7W04U	AD
IC1201	RH-iX3353CEZZ	J	IX3353CE, LCD Control	AV
IC1203	VHiiCS1523M-1	J	ICS1523M	BC
IC1205	VHiNJM4560M-1	J	NJM4560M	AG
IC1206	VHiPST529DM-1	J	PST529DM	AE
IC1210	VHiTC4W53U/-1	J	TC4W53U	AF
IC1211	VHiTC4024BF1E	J	TC4024BF	AG

Ref. No.	Part No.	★	Description	Code
DUNTKA016FE01 MAIN PWB UNIT(Continued)				
IC1212	VHiTC4052BF1E	J	TC4052BF	AF
IC1213	VHiTC4S69F/-1	J	TC4S69F	AC
IC1214	VHiTC7W04U/-1	J	TC7W04U	AD
IC2001	RH-iX3335CEZZ	J	IX3335CE, Micro Computer	AY
IC2002	VHiMB8346BV-1	J	MB8346BV, DAC1	AN
IC2003	VHiM24C04W6-1	J	M24C04W6, E^{2}PROM	AE
IC2004	VHiPST529DM-1	J	PST529DM, Reset	AE
IC2005	VHiTC4W66F/-1	J	TC4W66F	AE
IC2801	VHiTA8772AN-1	J	TA8772AN, 1H Delay	AV
IC2802	VHiTA1229N/-1	J	TA1229N, Secam Decoder	AX
IC4101	RH-iX2379CEZZ	J	IX2379CE, Controler	AY
IC4102	VHiPD485505-2	J	PD485505, Line Memory	AY
IC4103	VHiUPC659A/-1	J	UPC659A, A/D Converter	AU
IC4104	VHiMB40768F-1	J	MB40768F, D/A Converter	AP
IC4105	VHiSC7S04F/-1	J	SC7S04F	AC
IC4106	VHiNJM2107F-1	J	NJM2107F, OP Amp	AE
IC4107	RH-iX2174CEZZ	J	IX2174CE, Buffer	AG
IC7001	VHiPD64081B-1	J	PD64081B, Y/C Separate	BD
IC7002	RH-iX3420CEZZ	J	IX3420CE, Memory	AT
IC7003	VHiMC14577F-1	J	MC14577F	AG
IC7005	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC7006	VHiPST600iM-1	J	PST600iM, Reset	AE
IC7100	VHiM40C568H-1	J	M40C568H, A/D Converter	AQ
IC7101	VHiTC7S08F/-1	J	TC7S08F	AC
IC7102	VHiTC4S66F/-1	J	TC4S66F	AD
TRANSISTORS				
Q305	VSDTC114EE/-1	J	DTC114EE	AB
Q306	VSDTC314TK/-1	J	DTC314TK	AC
Q307	VSDTC314TK/-1	J	DTC314TK	AC
Q308	VS2SB1182//2E	J	2SB1182	AE
Q401	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q402	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q404	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q407	VS2SK1467//-1	J	2SK1467	AE
Q408	VS2SK1467//-1	J	2SK1467	AE
Q409	VSDTC114EE/-1	J	DTC114EE	AB
Q410	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q411	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q702	VSFS5ASJ06/-1	J	FS5ASJ06	AF
Q703	VS2SC2712Y/-1	J	2SC2712Y	AB
Q704	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q705	VSDTC144EE/-1	J	DTC144EE	AA
Q708	VSFMMT718//-1	J	FMMT718	AE
Q709	VSDTC144EE/-1	J	DTC144EE	AA
Q751	VS2SB1182//2E	J	2SB1182	AE
Q754	VSDTC114YE/-1	J	DTC114YE	AB
Q802	VSDTC114EE/-1	J	DTC114EE	AB
Q803	VSDTC114EE/-1	J	DTC114EE	AB
Q804	VSFMMT619//-1	J	FMMT619	AE
Q805	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q806	VSDTC114EE/-1	J	DTC114EE	AB
Q851	VS2SB1132Q/-1	J	2SB1132Q	AC
Q852	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q854	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q856	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q857	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q859	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q860	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1101	VSUPA606T//-1	J	UPA606T	AD
Q1102	VSUPA606T//-1	J	UPA606T	AD
Q1103	VSUPA606T//-1	J	UPA606T	AD
Q1106	VS2SC4520S/-1	J	2SC4520S	AF
Q1107	VS2SA1729R/-1	J	2SA1729R	AK
Q1207	VSDTC144EE/-1	J	DTC144EE	AA
Q1209	VSDTC144EE/-1	J	DTC144EE	AA
Q1210	VSDTC114YE/-1	J	DTC114YE	AB
Q2001	VSDTC144EE/-1	J	DTC144EE	AA
Q2801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2802	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4023	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4101	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4102	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4103	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4104	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4105	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4106	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4107	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4108	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4109	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4110	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4111	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4112	VSiMT2/////-1	J	IMT2	AB
Q7001	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q7002	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q7003	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q7004	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q7005	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q7012	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q7013	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q7014	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q7015	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q7016	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q7101	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q7731	VSUPA606T//-1	J	UPA606T	AD
Q7732	VSUPA606T//-1	J	UPA606T	AD
Q7733	VSUPA606T//-1	J	UPA606T	AD
DIODES				
D301	RH-EX1283CEZZ	J	Zener Diode	AB
D302	RH-EX1283CEZZ	J	Zener Diode	AB
D303	RH-EX0891CEZZ	J	Zener Diode	AC
D401	RH-EX0632CEZZ	J	Zener Diode	AB
D402	RH-EX0632CEZZ	J	Zener Diode	AB
D701	VHDDAN222//-1	J	DAN222	AA
D702	VHDSFPB56//2E	J	SFPB56	AC
D703	VHD1SS250//1E	J	1SS250	AB
D705	VHDSFPB76//2E	J	SFPB76	AD
D706	VHDSFPB74//2E	J	SFPB74	AD
D707	VHDDAN222//-1	J	DAN222	AA
D709	VHDDAN222//-1	J	DAN222	AA
D710	VHDDAN222//-1	J	DAN222	AA
D740	VHD1SS119//-1	J	1SS119	AB
D751	VHDSC8024//-1	J	SC8024	AC
D801	VHDDAN222//-1	J	DAN222	AA
D802	VHDDAN222//-1	J	DAN222	AA
D803	RH-EX0852CEZZ	J	Zener Diode	AC
D890	RH-EX0632CEZZ	J	Zener Diode	AB
D1101	VHD1SS250//1E	J	1SS250	AB
D1102	VHDDAP222//-1	J	DAP222	AA
D1103	VHDDAN222//-1	J	DAN222	AA
D1104	VHDDAP222//-1	J	DAP222	AA
D1105	VHDDAN222//-1	J	DAN222	AA
D1201	VHDMA335Q//-1	J	MA335Q	AD
D1204	VHDDAN222//-1	J	DAN222	AA
D1206	VHD1SS294//-1	J	1SS294	AC
D1208	RH-EX0906CEZZ	J	Zener Diode	AD
D2001	VHDiMN10///-1	J	IMN10	AB
D4101	RH-EX0515CEZZ	J	Zener Diode	AB
D4102	VHD1SV217//-1	J	1SV217	AB
D7001	VHDDAN202K/-1	J	DAN202K	AB
D7731	VHDiMN10///-1	J	IMN10	AB
D7732	VHDiMN10///-1	J	IMN10	AB
D7733	VHDiMN10///-1	J	IMN10	AB
D7734	VHDiMN10///-1	J	IMN10	AB
PACKAGED CIRCUITS				
X801	RCRSB0262CEZZ	J	Crystal, CRSB0262CE	AH
X802	RCRSB0261CEZZ	J	Crystal, CRSB0261CE	AH
X803	RCRSB0263CEZZ	J	Crystal, CRSB0263CE	AH
X1201	RCRSZ0086CEZZ	J	Crystal, CRSZ0086CE	AM
X2850	RCRSB0273CEZZ	J	Crystal, CRSB0273CE	AG
X7001	RCRSB0258CEZZ	J	Crystal, CRSB0258CE	AG
FILTERS				
CF801	RFiLA0034CEZZ	J	Filter, FiLA0034CE	AD
CF2001	RFiLC0056TAZZ	J	Filter, FiLC0056TA	AE

Ref. No.	Part No.	★	Description	Code
DUNTKA016FE01 MAIN PWB UNIT(Continued)				
FL401	RCiLF0135GEZZ	J	Coil, CiLF0135GE	AL
FL402	RCiLF0135GEZZ	J	Coil, CiLF0135GE	AL
FL803	RFiLC0274CEZZ	J	Filter, FiLC0274CE	AG
FL4101	RCiLF0214CEZZ	J	Coil, CiLF0214CE	AF
FL7001	RCiLF0306CEZZ	J	Coil, CiLF0306CE	AH
FL7002	RCiLV0108GEZZ	J	Coil, CiLV0108GE	AG
FL7003	RFiLN0097GEZZ	J	Filter, FiLN0097GE	AF
FL7004	RFiLN0097GEZZ	J	Filter, FiLN0097GE	AF
FL7011	RFiLN0079GEZZ	J	Filter, FiLN0079GE	AC
FL7012	RFiLN0079GEZZ	J	Filter, FiLN0079GE	AC
COILS				
L402	VP-1M101J7R7N	J	Peaking, 100µH	AC
L701	RCiLC0085CEZZ	J	Coil, CiLC0085CE	AF
L706	RCiLC0130CEZZ	J	Coil, CiLC0130CE	AG
L751	RCiLC0085CEZZ	J	Coil, CiLC0085CE	AF
L752	RCiLC0085CEZZ	J	Coil, CiLC0085CE	AF
L753	RCiLC0055CEZZ	J	Coil, CiLC0055CE	AD
L805	RCiLC0055CEZZ	J	Coil, CiLC0055CE	AD
L806	RCiLC0055CEZZ	J	Coil, CiLC0055CE	AD
L807	VP-1M101J7R7N	J	Peaking, 100µH	AC
L808	VP-1M101J7R7N	J	Peaking, 100µH	AC
L809	VP-1M101J7R7N	J	Peaking, 100µH	AC
L810	VP-1M270J3R8N	J	Peaking, 27µH	AC
L811	VP-1M100J1R6N	J	Peaking, 10µH	AC
L1001	VP-1M470J5R4N	J	Peaking, 47µH	AC
L1101	VP-1M470J5R4N	J	Peaking, 47µH	AC
L1102	VP-1M470J5R4N	J	Peaking, 47µH	AC
L1204	RCiLB0174CEZZ	J	Oscillation Coil	AE
L1207	VP-1M470J5R4N	J	Peaking, 47µH	AC
L1208	VP-1M470J5R4N	J	Peaking, 47µH	AC
L2001	VP-1M470J5R4N	J	Peaking, 47µH	AC
L2002	VP-1M470J5R4N	J	Peaking, 47µH	AC
L2850	VP-1M270J3R8N	J	Peaking, 27µH	AC
L4101	RCiLB0065CEZZ	J	Oscillation Coil	AG
L4102	VP-1M3R3JR93N	J	Peaking, 3.3µH	AB
L7002	VP-1M4R7J1R2N	J	Peaking, 4.7µH	AB
L7050	VP-1M220J2R9N	J	Peaking, 22µH	AC
L7051	VP-1M220J2R9N	J	Peaking, 22µH	AC
TRANSFORMER				
⚠ T701	RTRNZ0775CEZZ	J	Transformer	AM
CONTROL				
R4162	RVR-M8000TAZZ	J	Variable Resistor	AB
CAPACITORS				
C333	VCEAPH0JW226M	J	22 6.3V Electrolytic	AB
C334	VCEAPH0JW226M	J	22 6.3V Electrolytic	AB
C341	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C342	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C343	VCEAPF1CN476M	J	47 16V Electrolytic	AD
C344	VCEAPF1CN476M	J	47 16V Electrolytic	AD
C345	VCEAPH1CN106M	J	10 16V Electrolytic	AD
C346	VCEAPF1CN476M	J	47 16V Electrolytic	AD
C347	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C348	VCEA4A1CN228M	J	2200 16V Electrolytic	AF
C349	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C350	VCKYTV1CF104Z	J	0.1 16V Ceramic	AA
C351	VCKYTV1CF104Z	J	0.1 16V Ceramic	AA
C352	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C353	VCEAPF0JN107M	J	100 6.3V Electrolytic	AD
C354	VCEAPF0JN107M	J	100 6.3V Electrolytic	AD
C355	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C384	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C385	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C386	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C392	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C399	RC-EZ1180CEZZ	J	Capacitor	AE
C401	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C402	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C403	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C404	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C405	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C406	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C407	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C408	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C409	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C410	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C411	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C412	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C413	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C414	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C415	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C416	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C417	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C418	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C420	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C421	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C422	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C423	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C424	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C425	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C426	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C427	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C428	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C429	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C431	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C432	VCEAPW1CN107M	J	100 16V Electrolytic	AE
C433	VCEAPT0JN107M	J	100 6.3V Electrolytic	AD
C436	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C437	VCEAPT0JN107M	J	100 6.3V Electrolytic	AD
C438	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C439	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C440	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C441	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C443	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C444	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C445	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C446	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C448	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C451	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C452	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C453	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C454	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C455	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C456	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C457	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C458	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C459	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C465	VCCCCY1HH121J	J	120p 50V Ceramic	AA
C466	VCKYTV1HB822K	J	8200p 50V Ceramic	AA
C701	VCCCCY1HH471J	J	470p 50V Ceramic	AA
C702	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C703	VCEAPF1CN226M	J	22 16V Electrolytic	AD
C704	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C705	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C706	VCKYCY1HB562K	J	5600p 50V Ceramic	AA
C710	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C711	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C712	VCEAPT1CN226M	J	22 16V Electrolytic	AC
C713	RC-EZ1176CEZZ	J	100 16V Electrolytic	AK
C721	VCEAPW1VN476M	J	47 35V Electrolytic	AE
C722	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C729	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C731	VCCCCY1HH181J	J	180p 50V Ceramic	AA
C734	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C735	VCEAPW0JN477M	J	470 6.3V Electrolytic	AE
C737	RC-EZ0538CEZZ	J	330 16V Electrolytic	AE
C738	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C740	VCEAPF1CN106M	J	10 16V Electrolytic	AD
C741	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C743	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C744	VCEAPT0JN476M	J	47 6.3V Electrolytic	AC
C751	VCFRED1HM222G	J	2200p 50V	AD
C752	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C753	RC-EZ0538CEZZ	J	330 16V Electrolytic	AE

DUNTKA016FE01
MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★			Description	Code
C754	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C756	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C757	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C781	RC-EZ0538CEZZ	J	330	16V	Electrolytic	AE
C785	RC-EZ1329CEZZ	J	68	10V	Electrolytic	AF
C786	VCKYTV1HB562K	J	5600p	50V	Ceramic	AA
C787	RC-EZ1329CEZZ	J	68	10V	Electrolytic	AF
C788	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C790	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C802	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C803	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C804	VCEAPH1HN224M	J	0.22	50V	Electrolytic	AD
C805	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C806	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C807	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C808	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C809	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C810	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C811	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C812	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C813	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C814	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C818	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C819	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C820	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C821	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C822	VCEAPF0JW336M	J	33	6.3V	Electrolytic	AB
C823	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C824	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C825	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C826	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C828	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C829	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C831	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C832	VCEAPH1HW105M	J	1	50V	Electrolytic	AB
C833	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C834	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C835	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C836	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C837	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C838	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C841	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C846	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C858	VCEAPF1AN476M	J	47	10V	Electrolytic	AD
C861	VCEA4A1CN108M	J	1000	16V	Electrolytic	AD
C870	VCEAPF1AN476M	J	47	10V	Electrolytic	AD
C871	VCEAPF1AN476M	J	47	10V	Electrolytic	AD
C872	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C883	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C884	VCEAPF0JN107M	J	100	6.3V	Electrolytic	AD
C885	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C886	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C887	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C888	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C889	VCE9PF1HW335M	J	3.3	50V	Electrolytic	AD
C890	VCEAPT0JN107M	J	100	6.3V	Electrolytic	AD
C891	VCE9PF1HW335M	J	3.3	50V	Electrolytic	AD
C892	VCE9PF1HW335M	J	3.3	50V	Electrolytic	AD
C893	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C894	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C895	VCCCCY1HH1R0C	J	1p	50V	Ceramic	AA
C898	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C899	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C1006	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1007	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1008	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1009	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1010	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1011	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1012	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1013	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1015	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1016	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1017	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1020	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1022	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1024	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1025	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1026	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1027	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1031	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1032	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1033	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1034	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1035	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1037	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1038	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1039	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1040	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1041	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1042	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1043	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1044	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1045	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1046	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1050	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C1051	VCEAPF0JN107M	J	100	6.3V	Electrolytic	AD
C1052	VCEAPF1CW336M	J	33	16V	Electrolytic	AB
C1054	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1060	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1061	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1063	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1066	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1101	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1103	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1104	VCKYTQ1EF105Z	J	1	25V	Ceramic	AD
C1105	VCKYTQ1EF105Z	J	1	25V	Ceramic	AD
C1106	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C1107	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1108	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1109	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1110	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1113	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1114	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1116	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1120	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1121	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1122	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1123	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1124	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1125	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1127	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1128	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1129	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1130	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1131	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1132	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1133	VCKYCY1CF334Z	J	0.33	16V	Ceramic	AA
C1151	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1201	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1202	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1203	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1204	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1205	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1206	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1207	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1208	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1209	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1210	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1211	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1212	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1213	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1214	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1215	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1216	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1217	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1218	VCCCCY1HH220J	J	22p	50V	Ceramic	AA

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MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description			Code
C1219	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1220	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1221	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1222	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1223	VCCCCY1HH271J	J	270p	50V	Ceramic	AA
C1224	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1225	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1226	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1228	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C1232	VCCCCY1HH151J	J	150p	50V	Ceramic	AA
C1233	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1234	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1235	VCKYCY1HB561K	J	560p	50V	Ceramic	AA
C1236	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1237	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1238	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1239	VCKYCY1HB332K	J	3300p	50V	Ceramic	AA
C1240	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1242	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C1244	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1245	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C1246	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1247	VCEAPF1VW106M	J	10	35V	Electrolytic	AB
C1248	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1249	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1250	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1251	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C1252	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1253	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1254	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1255	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1256	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1257	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1258	VCEAPF0JN107M	J	100	6.3V	Electrolytic	AD
C1259	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1260	VCEAPF0JN107M	J	100	6.3V	Electrolytic	AD
C1261	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1263	VCKYCY1HB561K	J	560p	50V	Ceramic	AA
C1264	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1265	VCKYCY1HB152K	J	1500p	50V	Ceramic	AA
C1266	VCKYCY1HB152K	J	1500p	50V	Ceramic	AA
C1267	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1270	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1271	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C1800	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1801	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C1802	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1803	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1804	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1805	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1806	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C1807	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1808	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C1809	VCCCCY1HH121J	J	120p	50V	Ceramic	AA
C1810	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1811	VCCCCY1HH181J	J	180p	50V	Ceramic	AA
C1812	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1813	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1814	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1815	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1816	VCEAPW1CN107M	J	100	16V	Electrolytic	AE
C1817	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C1818	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1819	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C1820	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1821	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1822	VCEAPF0JW336M	J	33	6.3V	Electrolytic	AB
C1823	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1825	VCEAPF0JW336M	J	33	6.3V	Electrolytic	AB
C1826	VCEAPF0JW336M	J	33	6.3V	Electrolytic	AB
C2001	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C2002	VCKYTV1CF105Z	J	1	16V	Ceramic	AB

Ref. No.	Part No.	★	Description			Code
C2004	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C2005	VCEAPW0JN107M	J	100	6.3V	Electrolytic	AE
C2006	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2007	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C2009	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2013	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2801	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2802	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2803	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2804	VCEAPF1CN107M	J	100	16V	Electrolytic	AD
C2805	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2806	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2807	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2808	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2809	VCEAPH1HW474M	J	0.47	50V	Electrolytic	AB
C2810	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2811	VCEAPF1CN107M	J	100	16V	Electrolytic	AD
C2812	VCEAPH1HW474M	J	0.47	50V	Electrolytic	AB
C2813	VCEAPH1HW105M	J	1	50V	Electrolytic	AB
C2814	VCEAPH1HW105M	J	1	50V	Electrolytic	AB
C2815	VCKYTV1CF225Z	J	2.2	16V	Ceramic	AC
C2816	VCKYTV1CF225Z	J	2.2	16V	Ceramic	AC
C2817	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2818	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2819	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C2820	VCEAPH1HW105M	J	1	50V	Electrolytic	AB
C2850	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2851	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2852	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C2853	VCEAPF1CN107M	J	100	16V	Electrolytic	AD
C2854	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2855	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C2856	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C2857	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2858	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C2859	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C2860	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C2861	VCKYCY1CF683Z	J	0.068	16V	Ceramic	AA
C2862	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C2863	VCKYCY1CB563K	J	0.056	16V	Ceramic	AB
C2864	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C2865	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C2866	VCCCCY1HH820J	J	82p	50V	Ceramic	AA
C2867	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C4030	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4032	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C4101	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4102	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4103	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4104	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4105	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C4106	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C4107	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4108	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4110	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C4111	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C4112	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C4113	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4114	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4115	VCE9PF1CW475M	J	4.7	16V	Electrolytic	AC
C4116	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C4117	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4118	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4119	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C4120	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C4121	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C4122	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C4123	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4124	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4125	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C4126	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4127	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C4128	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C4135	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4136	VCCCCY1HH330J	J	33p	50V	Ceramic	AA

Ref. No.	Part No.	★	Description			Code
DUNTKA016FE01 MAIN PWB UNIT(Continued)						
C4137	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C4138	VCEAPF1HW106M	J	10	50V	Electrolytic	AB
C4141	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7001	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C7002	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C7003	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7004	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7005	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C7006	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7007	VCCCCY1HH1R0C	J	1p	50V	Ceramic	AA
C7008	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7009	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7010	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7012	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7013	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7014	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7015	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C7016	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7017	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7018	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7019	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7020	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7021	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7022	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7023	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7024	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7025	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7026	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C7027	VCEAPF1HW334M	J	0.33	50V	Electrolytic	AB
C7028	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7029	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7030	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C7031	VCE9PF1HW105M	J	1	50V	Electrolytic	AC
C7032	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C7033	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C7035	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7036	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C7037	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C7038	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7039	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C7041	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C7042	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C7043	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7045	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C7046	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C7047	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C7048	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7050	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C7053	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C7054	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C7055	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C7056	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C7057	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7058	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7059	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C7060	VCCCCY1HH391J	J	390p	50V	Ceramic	AA
C7061	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7062	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C7072	VCCCCY1HH1R0C	J	1p	50V	Ceramic	AA
C7085	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C7100	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C7101	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7102	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C7103	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7104	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C7105	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7106	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7107	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7109	VCE9PF1HW105M	J	1	50V	Electrolytic	AC
C7110	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7111	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C7112	VCCCCY1HH330J	J	33p	50V	Ceramic	AA

Ref. No.	Part No.	★	Description			Code
C7731	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C7732	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C7733	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C7734	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C7735	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C7736	VCKYTV1AB105K	J	1	10V	Ceramic	AD
RESISTORS						
R330	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R332	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R334	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R335	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R336	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R337	VRS-TX2HF8R2J	J	8.2	1/2W	Metal Oxide	AA
R338	VRS-TX2HF8R2J	J	8.2	1/2W	Metal Oxide	AA
R339	VRS-TX2HF8R2J	J	8.2	1/2W	Metal Oxide	AA
R342	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R343	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R344	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R358	VRS-TV1JD102J	J	1k	1/16W	Metal Oxide	AA
R359	VRS-TV1JD102J	J	1k	1/16W	Metal Oxide	AA
R360	VRS-TV1JD102J	J	1k	1/16W	Metal Oxide	AA
R368	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R370	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R371	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R376	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R384	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R385	VRS-CR3AD391J	J	390	1W	Metal Oxide	AC
R394	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R401	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R402	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R404	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R405	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R406	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R407	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R410	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R412	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R413	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R416	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R417	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R418	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R420	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R421	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R422	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R424	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R425	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R426	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R427	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R428	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R429	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R430	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R431	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R434	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R435	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R436	VRS-CY1JF680J	J	68	1/16W	Metal Oxide	AA
R437	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R440	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R441	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R442	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R443	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R444	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R451	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R453	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R454	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R456	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R457	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R458	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R459	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R460	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R463	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R701	VRS-CY1JF1R0J	J	1	1/16W	Metal Oxide	AA
R702	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R703	VRS-TW2ED103J	J	10k	1/4W	Metal Oxide	AB
R704	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R705	VRS-TW2ED000J	J	0	1/4W	Metal Oxide	AB

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MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★			Description	Code
R706	VRS-CR3AD821J	J	820	1W	Metal Oxide	AC
R707	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R708	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R709	VRS-CY1JF123F	J	12k	1/16W	Metal Oxide	AA
R710	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R711	VRS-CY1JF184J	J	180k	1/16W	Metal Oxide	AA
R712	VRS-CY1JF683F	J	68k	1/16W	Metal Oxide	AA
R713	VRS-CY1JF682F	J	6.8k	1/16W	Metal Oxide	AA
R717	VRS-CY1JF152F	J	1.5k	1/16W	Metal Oxide	AA
R718	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R719	VRS-CY1JF393F	J	39k	1/16W	Metal Oxide	AA
R720	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R721	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R722	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R723	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R729	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R731	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R733	VRS-CY1JF152F	J	1.5k	1/16W	Metal Oxide	AA
R734	VRS-CY1JF681F	J	680	1/16W	Metal Oxide	AA
R735	VRS-CY1JF122F	J	1.2k	1/16W	Metal Oxide	AA
R736	VRS-CY1JF1R0J	J	1	1/16W	Metal Oxide	AA
R740	VRS-CR3AD220J	J	22	1W	Metal Oxide	AC
R741	VRS-CR3AD220J	J	22	1W	Metal Oxide	AC
R746	VRS-TQ2BD153J	J	15k	1/8W	Metal Oxide	AA
R747	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R751	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R752	VRS-CY1JF153F	J	15k	1/16W	Metal Oxide	AA
R753	VRS-CY1JF184J	J	180k	1/16W	Metal Oxide	AA
R754	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R755	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R756	VRS-TW2ED391J	J	390	1/4W	Metal Oxide	AA
R757	VRS-CY1JF333F	J	33k	1/16W	Metal Oxide	AA
R758	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R759	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R760	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R783	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R784	VRS-TW2ED102J	J	1k	1/4W	Metal Oxide	AA
R786	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R787	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R788	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R801	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R802	VRS-CY1JF303J	J	30k	1/16W	Metal Oxide	AA
R803	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R804	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R805	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R806	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R807	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R810	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R811	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R812	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R813	VRS-CY1JF512J	J	5.1k	1/16W	Metal Oxide	AA
R814	VRS-CY1JF512J	J	5.1k	1/16W	Metal Oxide	AA
R816	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R817	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R818	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R819	VRS-CY1JF225J	J	2.2M	1/16W	Metal Oxide	AA
R820	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R821	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R822	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R823	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R824	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R826	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R827	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R829	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R831	VRS-CY1JF512F	J	5.1k	1/16W	Metal Oxide	AA
R832	VRS-CY1JF123F	J	12k	1/16W	Metal Oxide	AA
R833	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R834	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R836	VRS-CY1JF273F	J	27k	1/16W	Metal Oxide	AA
R837	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R838	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R839	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R840	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R841	VRS-CY1JF122F	J	1.2k	1/16W	Metal Oxide	AA
R842	VRS-CY1JF751F	J	750	1/16W	Metal Oxide	AA
R843	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R845	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R846	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R847	VRS-CY1JF751F	J	750	1/16W	Metal Oxide	AA
R848	VRS-CY1JF122F	J	1.2k	1/16W	Metal Oxide	AA
R849	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R850	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R851	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R852	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R853	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R854	VRS-CY1JF473F	J	47k	1/16W	Metal Oxide	AA
R855	VRS-CY1JF153F	J	15k	1/16W	Metal Oxide	AA
R856	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R857	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R858	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R859	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R860	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R861	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R862	VRS-CY1JF221F	J	220	1/16W	Metal Oxide	AA
R863	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R864	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R865	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R867	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R868	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R873	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R874	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R875	VRS-CY1JF180J	J	18	1/16W	Metal Oxide	AA
R876	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R878	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R879	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R880	VRS-CY1JF122F	J	1.2k	1/16W	Metal Oxide	AA
R881	VRS-CY1JF751F	J	750	1/16W	Metal Oxide	AA
R882	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R885	VRS-CY1JF912F	J	9.1k	1/16W	Metal Oxide	AA
R886	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R888	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R889	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R890	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R891	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R892	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R893	VRS-CY1JF162J	J	1.6k	1/16W	Metal Oxide	AA
R894	VRS-CY1JF331F	J	330	1/16W	Metal Oxide	AA
R895	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R901	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1005	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1006	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1010	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1013	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1014	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1015	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R1026	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1027	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1028	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1030	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1031	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1032	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1033	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1034	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1035	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1101	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1102	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1104	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1105	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1106	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R1107	VRS-TW2ED1R5J	J	1.5	1/4W	Metal Oxide	AB
R1108	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1109	VRS-TW2ED1R5J	J	1.5	1/4W	Metal Oxide	AB
R1110	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R1111	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1112	VRS-CY1JF203F	J	20k	1/16W	Metal Oxide	AA
R1113	VRS-CY1JF302F	J	3k	1/16W	Metal Oxide	AA
R1114	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA

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Ref. No.	Part No.	★	Description			Code
R1115	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R1116	VRS-CY1JF3R9J	J	3.9	1/16W	Metal Oxide	AA
R1117	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1120	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1122	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1123	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1125	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1126	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1127	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1128	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1132	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1133	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R1134	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1136	VRS-CY1JF393F	J	39k	1/16W	Metal Oxide	AA
R1137	VRS-CY1JF333F	J	33k	1/16W	Metal Oxide	AA
R1138	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R1139	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1140	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1141	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1142	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1143	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1144	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1145	VRS-CY1JF104F	J	100k	1/16W	Metal Oxide	AA
R1146	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R1147	VRS-CY1JF563F	J	56k	1/16W	Metal Oxide	AA
R1148	VRS-CY1JF223F	J	22k	1/16W	Metal Oxide	AA
R1149	VRS-CY1JF223F	J	22k	1/16W	Metal Oxide	AA
R1154	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1155	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1156	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1157	VRS-CY1JF243F	J	24k	1/16W	Metal Oxide	AA
R1158	VRS-CY1JF393F	J	39k	1/16W	Metal Oxide	AA
R1159	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1160	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1162	VRS-TW2ED390J	J	39	1/4W	Metal Oxide	AA
R1201	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1202	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1203	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1204	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1205	VRS-CB1JF100J	J	10	1/16W	Metal Oxide	AA
R1206	VRS-CB1JF100J	J	10	1/16W	Metal Oxide	AA
R1207	VRS-CB1JF100J	J	10	1/16W	Metal Oxide	AA
R1208	VRS-CA1JF100J	J	10	1/16W	Metal Oxide	AB
R1209	VRS-CA1JF100J	J	10	1/16W	Metal Oxide	AB
R1210	VRS-CA1JF100J	J	10	1/16W	Metal Oxide	AB
R1211	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R1214	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1215	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R1216	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1217	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R1219	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R1220	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R1221	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1222	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1223	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1224	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1225	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R1226	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1227	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R1228	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1229	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R1230	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1231	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1232	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1233	VRS-CY1JF470J	J	47	1/16W	Metal Oxide	AA
R1237	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1238	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1239	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1240	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1242	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1243	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1244	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R1246	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1247	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1248	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1250	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1251	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1252	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1253	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1254	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1255	VRS-CY1JF390J	J	39	1/16W	Metal Oxide	AA
R1256	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1257	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R1258	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1259	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R1260	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R1261	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1266	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1272	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1273	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1274	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1281	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R1282	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1283	VRS-TQ2BD182J	J	1.8k	1/8W	Metal Oxide	AA
R1284	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1285	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R1291	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R1293	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1294	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R1321	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1801	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1802	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1805	VRS-CY1JF104F	J	100k	1/16W	Metal Oxide	AA
R1812	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R1813	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R1815	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1816	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R1817	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R1818	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1819	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1820	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R1821	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1822	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1824	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R1825	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R1826	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1827	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R1828	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R1829	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1830	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1831	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1832	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1833	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1834	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R2001	VRS-CA1JF102J	J	1k	1/16W	Metal Oxide	AA
R2002	VRS-TQ2BD121J	J	120	1/8W	Metal Oxide	AA
R2003	VRS-TQ2BD121J	J	120	1/8W	Metal Oxide	AA
R2004	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2005	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R2006	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2007	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R2008	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R2009	VRS-CA1JF271J	J	270	1/16W	Metal Oxide	AA
R2011	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2012	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2017	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2019	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2025	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2031	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2034	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2035	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2039	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R2045	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2046	VRS-CA1JF223J	J	22k	1/16W	Metal Oxide	AA
R2052	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2053	VRS-CA1JF223J	J	22k	1/16W	Metal Oxide	AA
R2060	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

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Ref. No.	Part No.	★	Description			Code
R2061	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2062	VRS-CA1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R2067	VRS-CB1JF471J	J	470	1/16W	Metal Oxide	AC
R2083	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2085	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2801	VRS-CY1JF113J	J	11k	1/16W	Metal Oxide	AA
R2802	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2803	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2804	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2805	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2850	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2851	VRS-CY1JF243J	J	24k	1/16W	Metal Oxide	AA
R2852	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2853	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2854	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2855	VRS-CY1JF511J	J	510	1/16W	Metal Oxide	AA
R2856	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2857	VRS-CY1JF565J	J	5.6M	1/16W	Metal Oxide	AA
R2859	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4090	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4091	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4092	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4093	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R4094	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4095	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R4096	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4097	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4101	VRS-CB1JF391J	J	390	1/16W	Metal Oxide	AC
R4105	VRS-CB1JF391J	J	390	1/16W	Metal Oxide	AC
R4109	VRS-TX2HF181J	J	180	1/2W	Metal Oxide	AA
R4110	VRS-TX2HF181J	J	180	1/2W	Metal Oxide	AA
R4111	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R4112	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R4113	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4114	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R4115	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R4116	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R4117	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R4118	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4119	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R4120	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4121	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R4122	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R4123	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4124	VRS-CB1JF391J	J	390	1/16W	Metal Oxide	AC
R4128	VRS-CB1JF391J	J	390	1/16W	Metal Oxide	AC
R4132	VRS-CB1JF271J	J	270	1/16W	Metal Oxide	AC
R4136	VRS-CB1JF271J	J	270	1/16W	Metal Oxide	AC
R4141	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R4142	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R4143	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R4144	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R4145	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R4146	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R4147	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R4148	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4149	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4150	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R4151	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4152	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R4153	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4154	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R4155	VRS-CY1JF823J	J	82k	1/16W	Metal Oxide	AA
R4156	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R4157	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4158	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4159	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4160	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R4161	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R4163	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R4164	VRS-TV1JD681J	J	680	1/16W	Metal Oxide	AA
R4165	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4167	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4168	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4169	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R4170	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4171	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R4172	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R4173	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R4174	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R4175	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R4176	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7000	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R7003	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7004	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7006	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7007	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R7008	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R7009	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R7010	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R7011	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R7012	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R7013	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R7020	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R7021	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7022	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7023	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R7024	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R7025	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R7026	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R7027	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R7028	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7029	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R7030	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R7031	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R7032	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R7033	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R7034	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R7036	VRS-CY1JF132J	J	1.3k	1/16W	Metal Oxide	AA
R7037	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R7038	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R7039	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R7040	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R7041	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R7042	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R7043	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R7044	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R7045	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R7046	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7047	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7048	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R7049	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7050	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R7051	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R7052	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7053	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R7054	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7055	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R7056	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R7058	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R7059	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7060	VRS-CY1JF911J	J	910	1/16W	Metal Oxide	AA
R7062	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R7066	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R7067	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R7071	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R7072	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7078	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7079	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R7080	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7081	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7100	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7101	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R7103	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R7104	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7105	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7120	VRS-CY1JF272F	J	2.7k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
DUNTKA016FE01 MAIN PWB UNIT(Continued)				
R7731	VRS-CB1JF152J	J	1.5k 1/16W Metal Oxide	AC
R7732	VRS-CA1JF152J	J	1.5k 1/16W Metal Oxide	AA
R7733	VRS-CB1JF104J	J	100k 1/16W Metal Oxide	AA
R7734	VRS-CA1JF104J	J	100k 1/16W Metal Oxide	AA
R7735	VRS-CB1JF562J	J	5.6k 1/16W Metal Oxide	AC
R7736	VRS-CA1JF562J	J	5.6k 1/16W Metal Oxide	AA
R7737	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R7738	VRS-CA1JF152J	J	1.5k 1/16W Metal Oxide	AA
R7739	VRS-CB1JF152J	J	1.5k 1/16W Metal Oxide	AC
MISCELLANEOUS PARTS				
	PRDAR3229CEFW	J	Heat Sink, IC305	AG
FB401	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB402	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB403	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB451	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB702	RBLN-0051TAZZ	J	Balun, BLN-0051TA	AC
FB704	RBLN-0051TAZZ	J	Balun, BLN-0051TA	AC
FB705	RBLN-0095CEZZ	J	Balun, BLN-0095CE	AD
FB706	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB708	RBLN-0095CEZZ	J	Balun, BLN-0095CE	AD
FB709	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB710	RBLN-0095CEZZ	J	Balun, BLN-0095CE	AD
FB751	RBLN-0095CEZZ	J	Balun, BLN-0095CE	AD
FB752	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB801	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB802	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB803	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB807	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB808	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB850	RBLN-0035TAZZ	J	Balun, BLN-0035TA	AB
FB1001	RBLN-0006TAZZ	J	Balun, BLN-0006TA	AB
FB1003	RBLN-0006TAZZ	J	Balun, BLN-0006TA	AB
FB1006	RBLN-0006TAZZ	J	Balun, BLN-0006TA	AB
FB1009	RBLN-0006TAZZ	J	Balun, BLN-0006TA	AB
FB1201	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB1202	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB1203	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB1204	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB1205	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB1208	RBLN-0006TAZZ	J	Balun, BLN-0006TA	AB
FB1209	RBLN-1038CEZZ	J	Balun, BLN-1038CE	AB
FB4102	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB4103	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB4105	RBLN-0065CEZZ	J	Balun, BLN-0065CE	AB
FB4106	RBLN-0065CEZZ	J	Balun, BLN-0065CE	AB
FB4107	RBLN-0065CEZZ	J	Balun, BLN-0065CE	AB
FB4109	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB4110	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB4111	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB7050	RBLN-0061TAZZ	J	Balun, BLN-0061TA	AD
FB7051	RBLN-0061TAZZ	J	Balun, BLN-0061TA	AD
FB7052	RBLN-0061TAZZ	J	Balun, BLN-0061TA	AD
FB7055	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB7056	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB7057	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB7058	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB7100	RBLN-0061TAZZ	J	Balun, BLN-0061TA	AD
FB7101	RBLN-0061TAZZ	J	Balun, BLN-0061TA	AD
FB7103	RBLN-0061TAZZ	J	Balun, BLN-0061TA	AD
P305	QPLGN0278GEZZ	J	Plug, 2Pin	AA
P701	QPLGN1478GEZZ	J	Plug, 14Pin	AC
P753	QPLGN0378GEZZ	J	Plug, 3Pin	AB
P754	QPLGN0378GEZZ	J	Plug, 3Pin	AB
P803	QPLGN1220REZZ	J	Plug, 12Pin	AC
P804	QPLGN0478GEZZ	J	Plug, 4Pin	AB
P805	QPLGN0420REZZ	J	Plug, 4Pin	AA
P2002	QPLGN1320REZZ	J	Plug, 13Pin	AC
P2003	QPLGN0620REZZ	J	Plug, 6Pin	AB
R1295	RBLN-1043CEZZ	J	Balun, BLN-1043CE	AB
SC402	QSOCN0464FJZZ	J	Socket, 50Pin	AH
SC1201	QSOCN0461FJZZ	J	Socket, 53Pin	AH
SC1202	QSOCN0206FJZZ	J	Socket, 30Pin	AF

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INTEGRATED CIRCUITS

IC304	VHiNJM4560M-1	J	NJM4560M, Rear BPF	AG
IC308	VHiNJM2283F-1	J	NJM2283F, L/R Select	AF
IC312	VHiTA8184F/-1	J	TA8184F, Sound Control	AN
IC313	VHiTC4053BF-1	J	TC4053BF, Normal/Vol Select	AG
IC314	VHiNJM4560M-1	J	NJM4560M, Amp	AG
IC317	VHiNJM3414V-1	J	NJM3414V, Head Phon Amp	AF
IC318	VHiNJM4560M-1	J	NJM4560M, Front BPF	AG
IC403	VHiTC4053BF-1	J	TC4053BF, Out/In Select	AG
IC704	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC2007	VHiMAX3100/-1	J	MAX3100	AZ
IC2008	VHiHiN232//-1	J	HiN232	AL

TRANSISTORS

Q301	VSDTC314TK/-1	J	DTC314TK	AC
Q302	VSDTC314TK/-1	J	DTC314TK	AC
Q303	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q304	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q310	VSUMG4/////-1	J	UMG4	AC
Q412	VSUMG4/////-1	J	UMG4	AC

DIODES

D2005	VHDiMN10///-1	J	IMN10	AB
D3301	VHDMA3120WA-1	J	DMA3120WA	AK
D3302	VHDMA3120WA-1	J	DMA3120WA	AK
D3303	VHDMA3120WA-1	J	DMA3120WA	AK
D3304	VHDMA3120WA-1	J	DMA3120WA	AK
D3305	VHDMA3120WA-1	J	DMA3120WA	AK
D3306	VHDMA3120WA-1	J	DMA3120WA	AK
D3401	RH-EX0879CEZZ	J	Zener Diode	AD
D3402	RH-EX0879CEZZ	J	Zener Diode	AD
D3403	VHDMA3120WA-1	J	DMA3120WA	AK
D3404	VHDMA3120WA-1	J	DMA3120WA	AK
D3405	VHDMA3120WA-1	J	DMA3120WA	AK
D3406	VHDMA3120WA-1	J	DMA3120WA	AK

PACKAGED CIRCUIT

X2071	RCRSC0013CEZZ	J	Crystal, CRSC0013CE	AH

FILTER

FL3410	RFiLN0017TAZZ	J	Filter, FiLN0017TA	AC

COIL

L380	VP-1M101J7R7N	J	Peaking, 100µH	AC

CAPACITORS

C303	VCEAPF1EN475M	J	4.7	25V	Electrolytic	AC
C304	VCEAPF1EN475M	J	4.7	25V	Electrolytic	AC
C307	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C308	VCEAPF1HN105M	J	1	50V	Electrolytic	AD
C309	VCEAPF1HN105M	J	1	50V	Electrolytic	AD
C311	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C313	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C317	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C318	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C319	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C320	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C321	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C330	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C331	VCKYTV1CB105K	J	1	16V	Ceramic	AC
C332	VCKYTV1CB105K	J	1	16V	Ceramic	AC
C335	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C336	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C337	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C338	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C339	VCEAPF1CN226M	J	22	16V	Electrolytic	AD

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TERMINAL PWB UNIT(Continued)

Ref. No.	Part No.	★			Description	Code
C340	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C358	VCEAPF0JN107M	J	100	6.3V	Electrolytic	AD
C378	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C379	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C380	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C381	VCEAPF0JN226M	J	22	6.3V	Electrolytic	AD
C382	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C383	VCEAPF1HN475M	J	4.7	50V	Electrolytic	AD
C389	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C391	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C435	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C447	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C450	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C873	VCCCCY1HH271J	J	270p	50V	Ceramic	AA
C879	VCCCCY1HH271J	J	270p	50V	Ceramic	AA
C952	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C953	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C954	VCFRED1HM822J	J	8200p	50V		AD
C955	VCFYEC1HM224J	J	0.22	50V		AE
C956	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C957	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C958	VCEAPF1CN476M	J	47	16V	Electrolytic	AD
C959	VCEAPF1CN476M	J	47	16V	Electrolytic	AD
C960	VCFRED1HM822J	J	8200p	50V		AD
C961	VCFYEC1HM224J	J	0.22	50V		AE
C962	VCEAPH1CN106M	J	10	16V	Electrolytic	AD
C963	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C964	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C971	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C972	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C973	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C2071	VCCCCY1HH5R0C	J	5p	50V	Ceramic	AA
C2072	VCCCCY1HH5R0C	J	5p	50V	Ceramic	AA
C2073	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2074	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2075	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2076	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2077	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2078	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2079	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2080	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2081	VCEAPF1AW226M	J	22	10V	Electrolytic	AB
C2082	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2083	VCKYTQ1EF105Z	J	1	25V	Ceramic	AD
C2084	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2085	VCKYTQ1EF105Z	J	1	25V	Ceramic	AD
C2086	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2087	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2088	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2089	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2090	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C3307	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C3308	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3309	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3311	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C3312	VCCCCY1HH121J	J	120p	50V	Ceramic	AA
C3313	VCCCCY1HH121J	J	120p	50V	Ceramic	AA
C3321	VCCCCY1HH121J	J	120p	50V	Ceramic	AA
C3402	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★			Description	Code
R301	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R302	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R303	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R304	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R305	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R306	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R307	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R308	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R309	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R310	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R311	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R312	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R313	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R318	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R319	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R320	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R321	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R322	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R323	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R324	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R325	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R326	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R328	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R329	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R340	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R341	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R345	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R346	VRS-CY1JF823J	J	82k	1/16W	Metal Oxide	AA
R347	VRS-CY1JF823J	J	82k	1/16W	Metal Oxide	AA
R349	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R355	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R357	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R362	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R363	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R364	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R365	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R366	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R367	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R369	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R372	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R373	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R374	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R375	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R378	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R380	VRS-CY1JF474J	J	470k	1/16W	Metal Oxide	AA
R381	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R382	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R383	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R386	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R387	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R388	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R390	VRS-CY1JF563F	J	56k	1/16W	Metal Oxide	AA
R391	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R392	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R393	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R397	VRS-CY1JF104F	J	100k	1/16W	Metal Oxide	AA
R398	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R411	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R419	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R448	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R461	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R462	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R464	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R465	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R477	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R724	VRS-CY1JF302F	J	3k	1/16W	Metal Oxide	AA
R725	VRS-CY1JF102F	J	1k	1/16W	Metal Oxide	AA
R1301	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1302	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1305	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1311	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2071	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2072	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2073	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2074	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2075	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2076	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2077	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2078	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2079	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2080	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R2090	VRS-TV1JD101J	J	100	1/16W	Metal Oxide	AA
R2091	VRS-TV1JD101J	J	100	1/16W	Metal Oxide	AA
R2092	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2093	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2094	VRS-TV1JD101J	J	100	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

DUNTKA092DE01 TERMINAL PWB UNIT(Continued)

R3301	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide		AA
R3302	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3303	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide		AA
R3304	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3305	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide		AA
R3306	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3307	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide		AA
R3308	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3309	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide		AA
R3310	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3313	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3314	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3315	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3316	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide		AA
R3319	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide		AA
R3320	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide		AA
R3401	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide		AA
R3402	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3404	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3405	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide		AA
R3406	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3407	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide		AA
R3408	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3409	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide		AA
R3410	VRS-TV1JD101J	J	100	1/16W	Metal Oxide		AA
R3411	VRS-TV1JD102J	J	1k	1/16W	Metal Oxide		AA
R3412	VRS-TV1JD102J	J	1k	1/16W	Metal Oxide		AA
R3413	VRS-TV1JD102J	J	1k	1/16W	Metal Oxide		AA
R3417	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide		AA

MISCELLANEOUS PARTS

FB3407	RBLN-0060TAZZ	J	Balun, BLN-0060TA		AB
FB3408	RBLN-0060TAZZ	J	Balun, BLN-0060TA		AB
FB3409	RBLN-0060TAZZ	J	Balun, BLN-0060TA		AB
⚠ FH701	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH702	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH703	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH704	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ F702	QFS-B2521GEZZ	J	Fuse, 2.5A 125V		AD
⚠ F703	QFS-B3221GEZZ	J	Fuse, 3.15A 125V		AE
J3302	QJAKF0056CEZZ	J	Jack, Audio		AG
J3401	QJAKG0060CEZZ	J	Jack		AH
J3402	QJAKG0060CEZZ	J	Jack		AH
J3403	QJAKG0059CEZZ	J	Jack, Video		AH
J3701	QJAKE0193CEZZ	J	Jack, DC		AK
P3302	QPLGN0280GEZZ	J	Plug, 2Pin		AB
P3304	QPLGN0280GEZZ	J	Plug, 2Pin		AB
P3701	QPLGN0428FJZZ	J	Plug, 18Pin		AD
SC3301	QSOCD0430CEZZ	J	Socket		AE
SC3401	QSOCN0464FJZZ	J	Socket, 50Pin		AH
SC3402	QSOCD0902CEZZ	J	Socket		AL

DUNTKA093DE01 INVERTER PWB UNIT

TRANSISTORS

Q7751	VSFZT1053A/-1	J	FZT1053A	AG
Q7752	VSFZT1053A/-1	J	FZT1053A	AG
Q7753	VSFZT1053A/-1	J	FZT1053A	AG
Q7754	VSFZT1053A/-1	J	FZT1053A	AG
Q7755	VS2SA1037KQ-1	J	2SA1037KQ	AA

COILS

L7752	RCiLC0153CEZZ	J	Coil, CiLC0153CE	AG
L7753	RCiLC0153CEZZ	J	Coil, CiLC0153CE	AG
L7755	RCiLC0153CEZZ	J	Coil, CiLC0153CE	AG
L7756	RCiLC0153CEZZ	J	Coil, CiLC0153CE	AG

Ref. No.	Part No.	★	Description	Code

TRANSFORMERS

⚠ T7751	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7752	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7753	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7754	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7755	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7756	RTRNZ0776CEZZ	J	Transformer	AM

CAPACITORS

C7752	RC-FZ0175CEZZ	J	0.15				AG
C7756	RC-FZ0175CEZZ	J	0.15				AG
C7759	VCKYCY1HF393Z	J	0.039	50V	Ceramic		AB
C7760	VCKYCY1HF393Z	J	0.039	50V	Ceramic		AB
C7761	VCEAPW1CN477M	J	470	16V	Electrolytic		AE
C7762	VCEAPW1CN477M	J	470	16V	Electrolytic		AE
C7763	VCEAPW1CN477M	J	470	16V	Electrolytic		AE
C7764	RC-FZ0175CEZZ	J	0.15				AG
C7765	RC-FZ0175CEZZ	J	0.15				AG

RESISTORS

R7751	VRS-TW2ED332J	J	3.3k	1/4W	Metal Oxide		AB
R7752	VRS-TW2ED332J	J	3.3k	1/4W	Metal Oxide		AB
R7753	VRS-TW2ED332J	J	3.3k	1/4W	Metal Oxide		AB
R7754	VRS-TW2ED332J	J	3.3k	1/4W	Metal Oxide		AB
R7755	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide		AA
R7756	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide		AA

MISCELLANEOUS PARTS

⚠ FH7751	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ FH7752	QFSHD1002CEZZ	J	Fuse Holder		AA
⚠ F7751	QFS-B6022CEZZ	J	Fuse, 6.3A 125V		AD
P7751	QPLGN0447FJZZ	J	Plug, 3Pin		AE
P7753	QPLGN0447FJZZ	J	Plug, 3Pin		AE
P7755	QPLGN0578GEZZ	J	Plug, 5Pin		AB

DUNTKA094DE01 SW PWB UNIT

TRANSISTORS

Q4003	VSDTC144EE/-1	J	DTC144EE	AA
Q4006	VS2SC2712Y/-1	J	2SC2712Y	AB
Q4007	VS2SC2712Y/-1	J	2SC2712Y	AB
Q4008	VSUPA606T//-1	J	UPA606T	AD

DIODES

D4005	VHDMA3120WA-1	J	DMA3120WA	AK
D4006	VHDMA3120WA-1	J	DMA3120WA	AK
D4008	RH-EX0891CEZZ	J	Zener Diode	AC
D4009	RH-EX0879CEZZ	J	Zener Diode	AD
D4010	RH-EX0879CEZZ	J	Zener Diode	AD
D4012	RH-EX0879CEZZ	J	Zener Diode	AD
D4013	RH-PX0421CEZZ	J	PhotoDiode	AD
D4014	RH-PX0421CEZZ	J	PhotoDiode	AD
D4022	RH-EX0879CEZZ	J	Zener Diode	AD

CAPACITORS

C4001	VCEAPF1CW476M	J	47	16V	Electrolytic		AC
C4003	VCEAPF1CW476M	J	47	16V	Electrolytic		AC
C4018	RC-KZ1025CEZZ	J	1	10V	Ceramic		AB
C4020	VCCCCY1HH471J	J	470p	50V	Ceramic		AA
C4021	VCCCCY1HH471J	J	470p	50V	Ceramic		AA

RESISTORS

R4005	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide		AA
R4006	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide		AA
R4011	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide		AA
R4012	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide		AA
R4013	VRS-TX2HF330J	J	33	1/2W	Metal Oxide		AA
R4014	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide		AA
R4015	VRS-TX2HF330J	J	33	1/2W	Metal Oxide		AA
R4016	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide		AA
R4021	VRS-CY1JF101J	J	100	1/16W	Metal Oxide		AA

Ref. No.	Part No.	★	Description	Code
DUNTKA094DE01 SW PWB UNIT(Continued)				
R4023	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R4024	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R4025	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R4026	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R4027	VRS-CY1JF820J	J	82 1/16W Metal Oxide	AA
R4028	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA
R4029	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
MISCELLANEOUS PARTS				
	PSLDM4570CEFW	J	R/C Shield	AE
FB4020	RBLN-0062CEZZ	J	Balun, BLN-0062CE	AC
FB4021	RBLN-0062CEZZ	J	Balun, BLN-0062CE	AC
FB4022	RBLN-0062CEZZ	J	Balun, BLN-0062CE	AC
J4001	QJAKJ0063CEZZ	J	Jack	AF
P4004	QPLGN1320REZZ	J	Plug, 13Pin	AC
RMC4002	RRMCU0225CEZZ	J	Remote Receiver	AK
SW4002	QSW-K0087GEZZ	J	Switch, Select ▼	AC
SW4003	QSW-K0087GEZZ	J	Switch, Select ▲	AC
SW4004	QSW-K0087GEZZ	J	Switch, Menu	AC
SW4006	QSW-K0087GEZZ	J	Switch, AV Input	AC
SW4007	QSW-K0087GEZZ	J	Switch, Vol (-)	AC
SW4008	QSW-K0087GEZZ	J	Switch, Vol (+)	AC
S4701	QSW-P0614CEZZ	J	Switch	AF
DUNTKA095DE01 RGB PWB UNIT				
DIODES				
D3407	VHDMA3120WA-1	J	MA3120WA	AK
D3408	VHDMA3120WA-1	J	MA3120WA	AK
D3410	VHDMA157A//-1	J	MA157A	AC
D3411	VHDMA157A//-1	J	MA157A	AC
D3412	VHDMA157A//-1	J	MA157A	AC
D3413	VHDMA157A//-1	J	MA157A	AC
D3414	VHDMA157A//-1	J	MA157A	AC
D3415	VHDMA157A//-1	J	MA157A	AC
FILTERS				
FL3401	RFiLN0003TAZZ	J	Filter, FiLN0003TA	AD
FL3402	RFiLN0003TAZZ	J	Filter, FiLN0003TA	AD
FL3403	RFiLN0003TAZZ	J	Filter, FiLN0003TA	AD
CAPACITORS				
C3410	VCEAPF0JW476M	J	47 6.3V Electrolytic	AB
C3411	VCEAPF0JW476M	J	47 6.3V Electrolytic	AB
C3412	VCEAPF0JW476M	J	47 6.3V Electrolytic	AB
C3413	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C3414	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C3415	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C3416	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C3417	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
RESISTORS				
R3420	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3421	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3422	VRS-TV1JD101J	J	100 1/16W Metal Oxide	AA
R3423	VRS-TV1JD101J	J	100 1/16W Metal Oxide	AA
R3424	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R3425	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R3426	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R3440	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3441	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3442	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3443	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3444	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3445	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3446	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3447	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3448	VRS-TV1JD471J	J	470 1/16W Metal Oxide	AA
R3449	VRS-TV1JD101J	J	100 1/16W Metal Oxide	AA
MISCELLANEOUS PARTS				
FB3404	RBLN-0060TAZZ	J	Balun, BLN-0060TA	AB
FB3405	RBLN-0060TAZZ	J	Balun, BLN-0060TA	AB
FB3406	RBLN-0060TAZZ	J	Balun, BLN-0060TA	AB
J3410	QJAKJ0008GEZZ	J	Jack	AD
P3401	QPLGN0301FJZZ	J	Plug, 18Pin	AD
SC3403	QSOCN0344FJZZ	J	Socket, 16Pin	AM

SUPPLIED ACCESSORIES

	LHLDW1028GEZZ	J	Cable Clamp	AB
⚠	QACCD0108CEZZ	J	AC Cable	AY
	QCNW-1335TAZZ	J	AV Cable	AM
	QCNW-5288CEZZ	J	RS232C Cable	AM
	RCORF0089CEZZ	J	For Core AC Cord	—
	SSAKA0160CEZZ	J	Polystylene Sack	AB
	TCAUZ1034CEZZ	J	A method manual to have	AF
	TiNS-6901CEZZ	J	Operation Manual	AY
	RRMCG1459CESA	J	Remote Control	AS
	UADP-0214CEZZ	J	AC Adapter	BU

PACKING PARTS *(NOT REPLACEMENT ITEM)*

SPAKC5388CEZZ	-	Packing Case	—
SPAKF0395CEZZ	-	Packing Add. (Top)	—
SPAKF0396CEZZ	-	Packing Add. (Bottom)	—
SPAKP0797CEZZ	-	Wrapping Paper	—
SPAKX2894CEZZ	-	Packing Add.	—
TLABK0001TAZZ	-	No. Label	—
TLABN0157CEZZ	-	No. Card	—

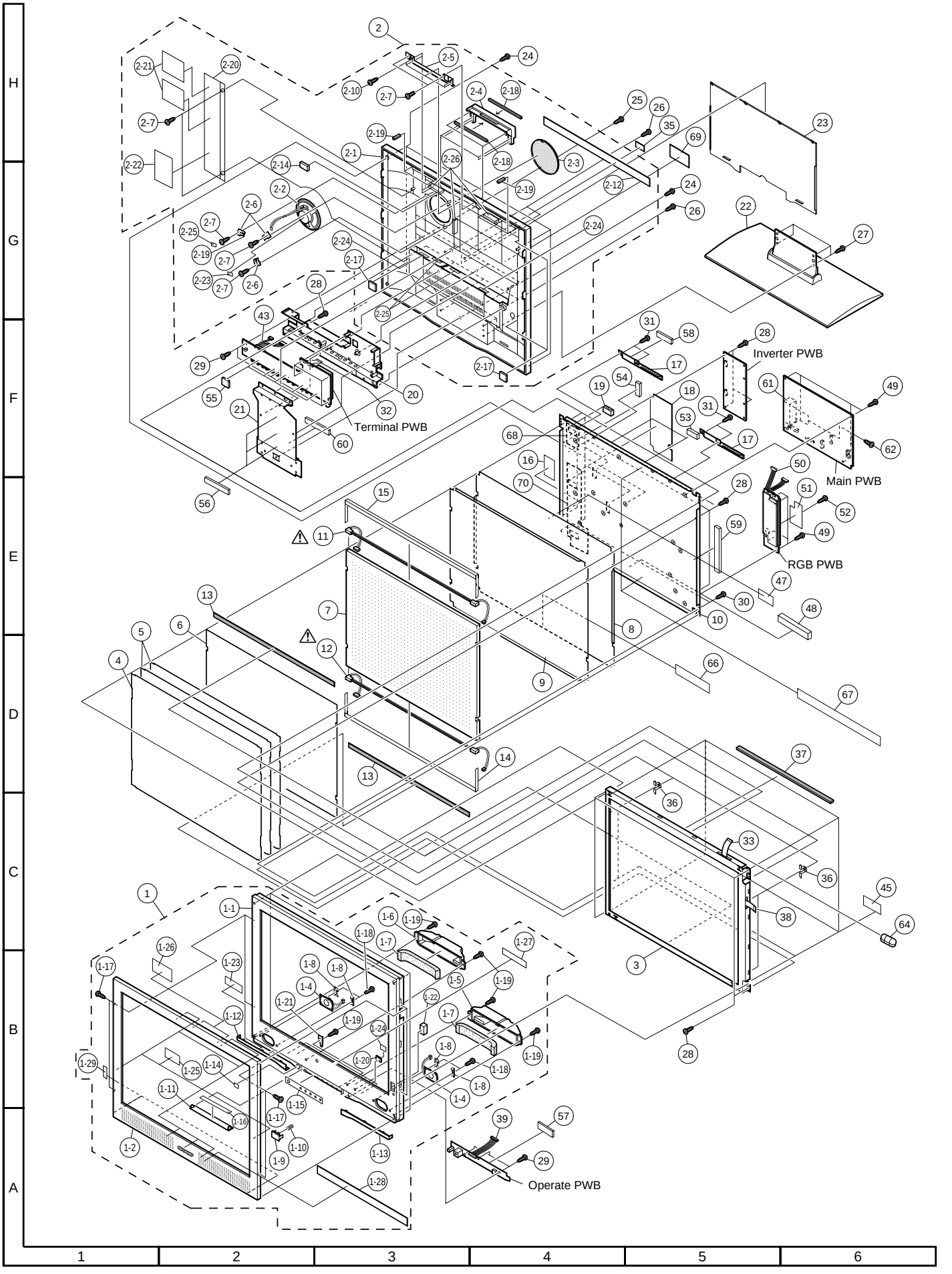
SERVICING JIG (CONNECTING CORD)

QCNW-5511CEZZ	J	Connecting Cord	AW
QCNW-5512CEZZ	J	Connecting Cord	AW

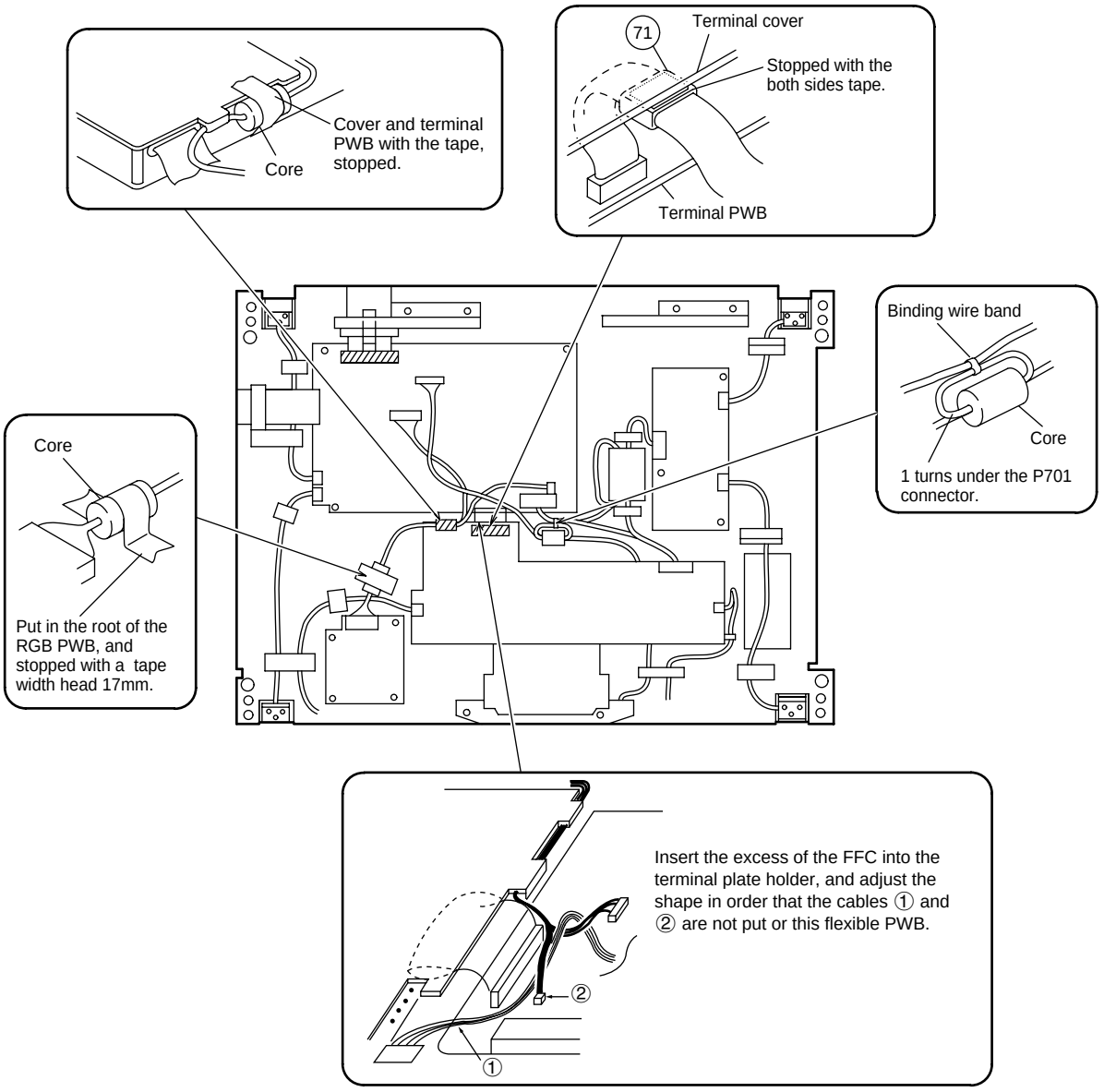
CABINET PARTS

Ref. No.	Part No.	★	Description	Code
1	CCABA2380CE04	J	Cabinet A Ass'y	BV
1-1	————————	-	Cabinet A	—
1-2	HDECA0757CESA	J	Aluminum Decoration Plate	BQ
1-4	VSP4030P-44YD	J	Speaker	AR
1-5	PCOVP1083CEKZ	J	Speaker Cover (R)	AG
1-6	PCOVP1082CEKZ	J	Speaker Cover (L)	AG
1-7	PFLT-0028CEZZ	J	Sound Absorbing Material	AD
1-8	LANGS0122CEFW	J	Speaker Fixing Metal	AD
1-9	JBTN-2042CESA	J	Power Button	AG
1-10	MSPRC0203CEFW	J	Power Button Spring	AC
1-11	GDORF2048CEKA	J	Front Door	AF
1-12	GCOVA1798CESA	J	Front Cover (L)	AF
1-13	GCOVA1844CESA	J	Front Cover (R)	AG
1-14	GCOVA1840CESA	J	LED Dec Cover	AC
1-15	HiNDP5463CESA	J	Decoration Indicator Plate (Switch Side)	AD
1-16	HiNDP5464CESA	J	Decoration Indicator Plate (Door Side)	AD
1-17	LX-HZ3111CEFN	J	Screw	AB
1-18	XEBSD20P05000	J	Screw	AA
1-19	XEBSD30P08000	J	Screw	AA
1-20	GCOVA1808CEZZ	J	LED Cover	AE
1-21	MSPRP0204CEFW	J	Spring Door Hinge	AD
1-22	QEARZ0026CEZZ	J	Electrostatic Gasket	AC
1-23	PSHEP0027CEZZ	J	Covering Sheet	AA
1-24	PMLT-0356CEZZ	J	LED Molt	AB
1-25	PSPAH0623CEZZ	J	Spacer	AB
1-26	PSPAH0624CEZZ	J	Spacer	AB
1-27	PSPAH0631CEZZ	J	Spacer	AB
1-28	PSPAZ0315CEZZ	J	Both Side Tape	AD
1-29	PSPAZ0316CEZZ	J	Both Side Tape	AD
2	CCABB2277CE02	J	Cabinet B Ass'y	BT
2-1	————————	-	Cabinet B	—
2-2	VSP0080WBP56A	J	Speaker	AV
2-3	HPNC-0454CESA	J	Punching Metal	AK
2-4	JHNDP0102CEKB	J	Handle	AT
2-5	LANGU9046CEFW	J	Handle Fixing Metal	AF
2-6	LANGS0133CEFW	J	Speaker Fixing Metal	AC
2-7	XEBSD30P08000	J	Screw	AA
2-10	XEBSD40P10000	J	Screw	AA
2-12	HiNDP5499CESA	J	Model Indicator Label	AF
2-14	QEARZ0014CEZZ	J	Electrostatic Earth	AC
2-17	PMLT-0355CEZZ	J	Covering Spacer	AC
2-18	PSPAG0344CE00	J	Sound Leakage Spacer	AC
2-19	PMLT-0354CEZZ	J	Sound Leakage Packing	AB
2-20	LANGU9047CEFW	J	SP Angle	AP
2-21	PSPAG0343CE00	J	Molt Plane	AC
2-22	PSPAG0342CE00	J	Molt Plane	AD
2-23	PSPAH0628CEZZ	J	Optical Leakage Spacer	AC
2-24	PSPAH0632CEZZ	J	Spacer	AC
2-25	PSPAH0624CEZZ	J	Spacer	AB
2-26	PSPAH0621CEZZ	J	Spacer	AB
3	RLCDT0053CEZZ	J	20-inch liquid crystal panel	BR
4	PSHEP0216CEZZ	J	Reflection Polarizing Sheet	BS
5	PSHEP0179CEZZ	J	Diffusion Sheet	AS
6	PSHEP0183CEZZ	J	ITO Sheet	BC
7	PGiDM0058CEZZ	J	Light Guide Sheet	BK
8	PSHEP0186CEZZ	J	Reflection Sheet A	AN
9	PSHEP0187CEZZ	J	Reflection Sheet B	AN
10	PSLDM4598CEFW	J	Shield Plate	AT
⚠ 11	KLMP-0091CEZZ	J	Lamp Unit (Upper)	BB
⚠ 12	KLMP-0092CEZZ	J	Lamp Unit (Lower)	BB
13	PSPAK0003CEZZ	J	Spacer For Reflection Sheet	AG
14	PSHEP0185CEZZ	J	Lamp Reflector (Lower)	AF
15	PSHEP0184CEZZ	J	Lamp Reflector (Upper)	AF
16	PSPAG0342CE00	J	Spacer	AD
17	PRDAR1552CEFW	J	Cooling Wheel	AH
18	PZETK0065CEZZ	J	Insulator	AH
19	LHLDW1173CEZZ	J	Wire Holder	AD
20	GCOVA1842CEKA	J	Terminal PWB Holder	AM
21	LANGU9042CEFW	J	Reinforcement Plate	AN
22	CCOVA1811CE02	J	Table Stand Ass'y	BQ
23	CCOVA1841CE01	J	Terminal Cover	AU
24	XEBSN40P16000	J	Screw	AB
25	XEBSN30P08000	J	Screw	AA
26	XBBSN30P08000	J	Screw	AA
27	XBBSN40P10000	J	Screw	AB
28	XBBSD30P06000	J	Screw	AA
29	XEBSD30P08000	J	Screw	AA
30	XEBSD40P10000	J	Screw	AA
31	XBBSF30P04000	J	Screw	AA
32	QCNW-5152CEZZ	J	Terminal Cable	AF
33	QCNW-5299CEZZ	J	FFC	AH
35	HiNDP5502CEZZ	J	No. Label	AD
36	LANGQ9206CEFW	J	ITO Grounding Angle	AF
37	PSPAZ0311CEZZ	J	Spacer	AF
38	QCNW-5151CEZZ	J	FFC	AG
39	QCNW-5678CEZZ	J	Operate Cable	AP
43	QCNW-5499CEZZ	J	Power Cable (Harness)	AQ
45	PSPAK0011CEZZ	J	Spacer	AA
47	PSPAK0008CEZZ	J	Spacer	AC
48	PSPAG0338CEZZ	J	Spacer	AB
49	XBPSD30P06JS0	J	Screw	AA
50	QCNW-5679CEZZ	J	VGA-Cable	AT
51	HPNLH3013CESA	J	PC Terminal Cover	AL
52	NSFTZ0134CEFW	J	PC Terminal Cover Screw	AD
53	QEARZ0018CEZZ	J	Gasket	AE
54	QEARZ0019CEZZ	J	Gasket	AG
55	QEARZ0020CEZZ	J	Gasket	AD
56	QEARZ0021CEZZ	J	Gasket	AE
57	QEARZ0022CEZZ	J	Gasket	AE
58	QEARZ0023CEZZ	J	Gasket	AF
59	QEARZ0024CEZZ	J	Gasket	AK
60	QEARZ0025CEZZ	J	Gasket	AH
61	PRDAR3229CEFW	J	Cooling Wheel	AG
62	XBPSD30P10JS0	J	Screw	AA
64	RCORF0064CEZZ	J	Core	AL
66	PSPAK0010CEZZ	J	Spacer	AC
67	PSPAZ0290CEZZ	J	Spacer	AE
68	PZETK0094CEZZ	J	Insulator	AE
69	HiNDP5320CESB	J	Caution Label	AF
70	PZETK0093CEZZ	J	Insulator	AH
71	RCORF0064CEZZ	J	Core(311112~311163)	AL

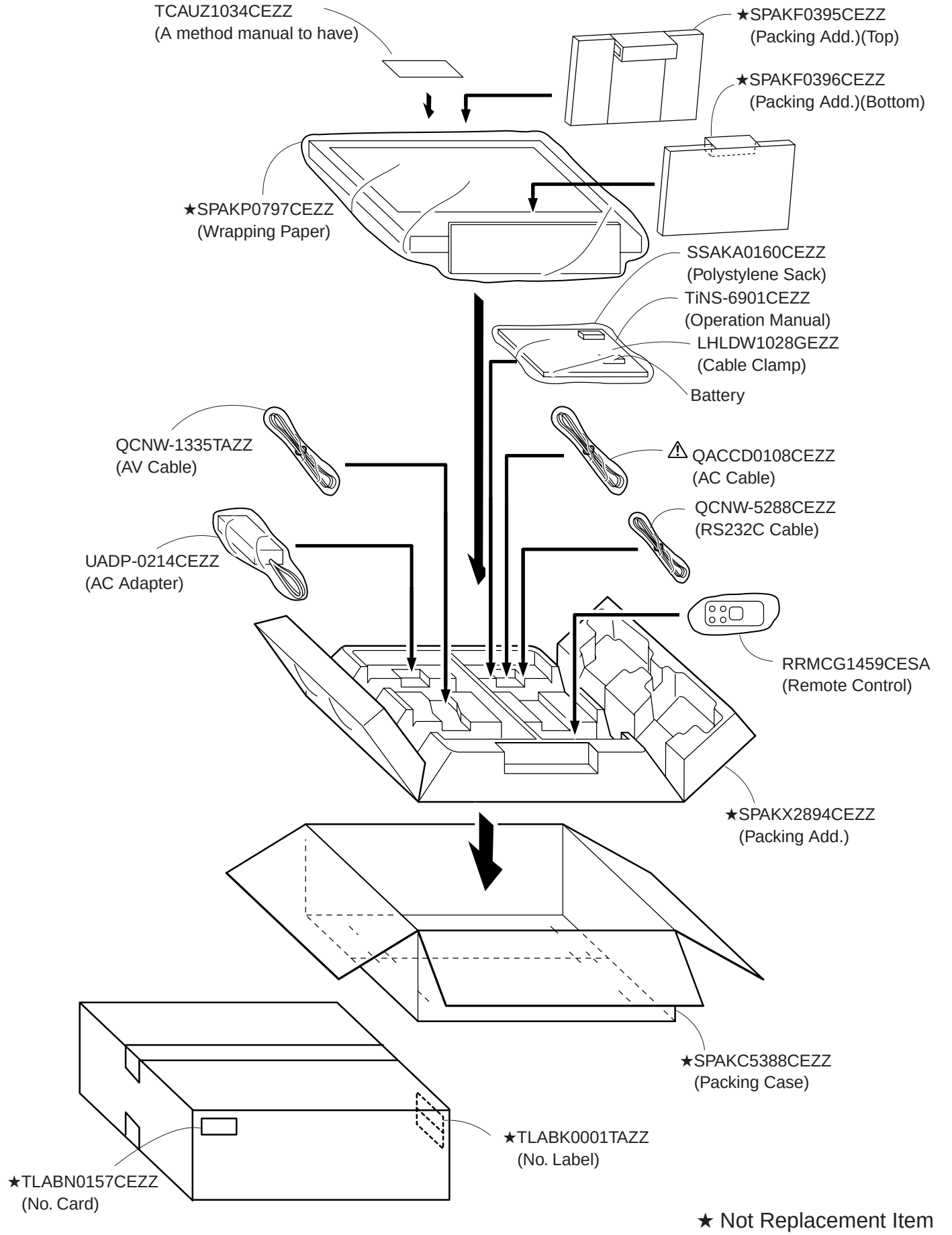
CABINET EXPLODED VIEW



• About the orthopedics of lead wire (No.311112~311163)
Give me caution referring to the bottom figure for the orthopedics of lead wire when you take the set of the applicable number by the repair and so on.


Cover and terminal PWB with the tape, stopped.
Core
71
Terminal cover
Stopped with the both sides tape.
Terminal PWB
Binding wire band
Core
1 turns under the P701 connector.
Core
Put in the root of the RGB PWB, and stopped with a tape width head 17mm.
Insert the excess of the FFC into the terminal plate holder, and adjust the shape in order that the cables ① and ② are not put or this flexible PWB.
②
①

14. PACKING OF THE SET



★ Not Replacement Item

- M E M O -

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